Mission Statement
MJC is committed to transforming lives through programs and services informed by the latest scholarship of teaching and learning. We provide a dynamic, innovative, undergraduate educational environment for the everchanging populations and workforce needs of our regional community. We facilitate lifelong learning through the development of intellect, creativity, character, and abilities that shape students into thoughtful, culturally aware, engaged citizens.

Vision Statement
MJC will enrich lives by challenging all students to become successful, lifelong learners who strengthen their community in a diverse and changing world. The college is the first choice for educational excellence in our community.

Values
Education is the reason our institution exists. To this end, we value innovation, professionalism, integrity, and responsible stewardship. We foster respect for and interest in the diverse individuals and histories of our community. These values are foundational to the way we shape our programs and services, make and communicate decisions, reinforce collaborative relationships within our community, and promote civic engagement.

Goals
1. Modesto Junior College will continue to foster the success of all students by providing access to a broad array of quality, relevant teaching and learning programs, and appropriate services.
2. MJC will tie Program Review, including all instructional and student services programs, to resource allocation decisions: staffing, technology, instructional equipment, and facilities.
3. MJC will develop and assess Student Learning Outcomes (SLOs) used for student learning improvement, at the course, program, and institutional levels.
4. Leadership responsible for governance at MJC will create a climate that empowers all MJC employees to be engaged in the campus community and that encourages respect, trust, and integrity through open communication and professional development.
5. MJC will collaboratively develop a staffing plan that includes realistic outcomes of program review for both instructional and student services programs, including attention to potential growth areas, program decline, and impending retirements.
6. MJC will expand and enhance outreach to business, industry, and the community based on identified needs and opportunities.
7. MJC will create a culture of evidence and measurable improvements.
8. MJC will expand and enhance the learning environment and delivery options for students.
9. MJC will develop a plan to increase student engagement in order to improve overall student success.
10. MJC will improve the planning and budget process to foster an environment of informed participation and budgetary understanding.

Accreditation
Modesto Junior College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 306-0234 by the authority of the U.S. Department of Education. Accreditation provides assurance that education earned is of value to the student; acceptable to employers, trade or profession-related licensing agencies; and other colleges and universities can accept a student’s credential as legitimate.

Policy 3410: Non-Discrimination Policy
It is the policy of Yosemite Community College District to provide an environment free of unlawful discrimination. Discrimination on the basis of ethnic group identification, religion, age, sex or gender, sexual orientation, color or physical or mental disability in the District's programs, activities and work environment is unlawful and will not be tolerated by the District.

The District strongly forbids any form of discrimination and has enacted complaint resolution procedures to recognize and eliminate unlawful discrimination.

Modesto Junior College affirms its commitment to equality of opportunity for all individuals. This commitment requires that no discrimination shall occur regarding admission or access to, or treatment or employment in, any program or activity in the College on the basis of ethnic group identification, religion, age, sex, sexual orientation, color, physical or mental disability, or lack of English language skills. This policy is in accordance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the Age Discrimination Act of 1975. The lack of English language skills will not be a barrier to enrollment in vocational programs. Students who believe they have been unlawfully discriminated against because of ethnic group identification, religion, age, sex, gender, sexual orientation, color, physical or mental disability, or lack of English language skills should contact the Vice President of Student Services, in Morris Memorial Building, Room 212, telephone (209)575-6060. Yosemite Community College District and Modesto Junior College have made every reasonable effort to insure that everything stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Yosemite Community College District or Modesto Junior College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies, and procedures.

Política de 3410: Política de No Discriminación
Es la política del Distrito de Colegio Comunitario de Yosemite para proporcionar un ambiente libre de discriminación ilegal. La discriminación basada en la identificación de grupos étnicos, la religión, la edad, el sexo o el género, la orientación sexual, color o discapacidades físicas o mentales en los programas, en las actividades y estado de trabajo son ilegales y no será tolerada por el Distrito.

El Distrito prohíbe fuertemente cualquier forma de discriminación y ha establecido procedimientos de resolución de quejas para reconocer y eliminar la discriminación ilegal.

Modesto Junior College reafirma su propósito de ofrecer igualdad de oportunidades a todas las personas. Este compromiso requiere que ningún individuo sufra discriminación en cuanto a la admisión, al acceso, en el trato, o en las oportunidades de empleo, en cualquier programa o actividad en esta institución a causa de su grupo étnico, religión, edad, género, preferencia sexual, color, o incapacidad física o mental. Esta política está conforme con el Título VI del Acta de los Derechos Civiles de 1964, Título IX de las Enmiendas de Educación de 1972, Sección 504 del Acta de Rehabilitación de 1973, el Acta de Americanos con Impedimentos, y el Acta contra la Discriminación en el Empleo a causa de la Edad de 1975. La falta de conocimiento del inglés no será obstáculo para la admisión a los programas de educación vocacional. Los estudiantes que crean haber sufrido discriminación por pertenecer a cualquiera de las categorías anteriormente mencionadas deben comunicarse con el Vice Presidente, Servicios Estudiantiles en la oficina número 212 del edificio Morris Memorial al teléfono 575-6060.

Yosemite Community College District y Modesto Junior College han hecho todo lo posible por asegurar que el contenido del catálogo de 2012-2013 sea correcto. La información en este catálogo sobre cursos y programas e información sobre otras actividades está sujeta a cambios sin previo aviso a criterio de la administración de Yosemite Community College District o Modesto Junior College por razones relacionadas con el número de estudiantes matriculados, nivel de apoyo financiero, o por cualquier otra razón, a discreción del Distrito y Modesto Junior College. Estas instituciones además se reservan el derecho de añadir, modificar, o anular cualquiera de sus reglamentos y procedimientos.
Welcome!

I’m so glad you are considering MJC for your educational journey. Modesto Junior College has a proud 96 year history of excellence in transfer preparation and career technical education. The college has student clubs and activities that range from fine and performing arts, civic engagement, science, academic honors, and athletics. Our programs are designed with an eye on the future; we are preparing the workforce of tomorrow with new technology, state of the art facilities, and outstanding faculty. Come visit MJC and explore the options that await. Your educational success starts here!

Jill Stearns, Ph.D.
President
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August

1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

September

1 2 3 4 5
6 7 8 9 10 11
12 13 14 15 16 17
18 19 20 21 22 23
24 25

October

1 2 3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23 24

November

1 2 3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23

December

1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23
24 25 26 27 28 29 30

January

1 2 3
4 5 6 7 8
9 10 11 12 13 14
15 16 17 18 19 20
21 22 23 24 25 26
27 28

February

1 2 3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23 24 25 26 27 28

March

1 2 3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23

April

1 2 3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23 24 25 26 27 28

SUMMER 2017

May

1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

June

1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30

July

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

August

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Legend:
- Finals Week
- Holiday
- Classes Begin
- Last Day of Semester
- CC In-Service Day
- MJC Institute Day

Non-Instructional Days:
- 8/25 CC In-Service Day
- 8/26 MJ C Institute Day
- 8/29 Fall Classes Begin

Instructional Days:
- 91 Instructional Days

Board Tentatively Adopted 11/12/2014
Board Approved 11/12/15
**2017-2018 Academic Calendar**

**August 2017**
- 8/19: Summer Classes End
- 8/24: CC In-Service Day
- 8/25: MJC Institute Day
- 8/28: Fall Classes Begin

**September 2017**
- 9/4: Labor Day

**October 2017**
- 10/9: Fall Classes Begin
- 10/13-15: MJC Institute Day
- 11/16: Martin Luther King Jr. Holiday

**November 2017**
- 11/10: Veterans Day Observed
- 11/23-24: Thanksgiving Holiday
- 11/25-26: Non-Instructional Days
- 12/8-9: Winter Break
- 12/25: Christmas Day
- 12/26: New Year’s Day

**December 2017**
- 12/11-15: Finals week

**January 2018**
- 1/1: New Year’s Day
- 1/4: MLK Day
- 1/15: President’s Day

**February 2018**
- 2/1: Women’s History Month

**March 2018**
- 3/1: Women’s History Month

**April 2018**
- 4/27: Graduation (CC & MJC)

**May 2018**
- 5/28: Memorial Day

**June 2018**
- 6/4: Summer Classes Begin

**July 2018**
- 7/4: Independence Day

**August 2018**
- 8/18: Summer Classes End

---

**Legend**
- **@**: Holiday
- ****: Non-Instructional Days
- ****: Final Classes End
- ****: Finals week
- ****: Flex In-Service Day
- ****: Last Day of Semester
- ****: Flex Day

---

**General Information**
- Board Approved 11/09/2016
- Board Tentatively Adopted 11/12/2015
- Board Approved 11/09/2016
Welcome to Modesto Junior College

OFFICE OF THE PRESIDENT
Jill Stearns, Ph.D.
President
Sabrina Miranda, Executive Secretary
Morris Memorial Building, 201
(209) 575-6067

Support Staff
Linda Hoile, Marketing and Public Information Officer
Irene Nunez, Graphic Arts Specialist
Sherri Potts, Graphic Arts Specialist
Joshua Sigman, Front End Web Developer
Monika Shortner, Graphic Arts Technician
David Todd, Photographer/Graphic Arts Specialist

ABOUT MODESTO JUNIOR COLLEGE
Modesto Junior College, one of the oldest community colleges in the state, was organized in 1921 to serve the first junior college district established under a State Legislature Enabling Act. Modesto Junior College was established to meet the needs of the community. Today the college strives to maintain the same objective—that of dedication and service to the community.

The College began with a charter enrollment of 61 students. Through the years registration has increased until today more than 18,000 day and evening students are enrolled each semester. In addition, more than 8,000 community participants take advantage of the ever-growing Community Education program.

To complement student growth, the campus has grown as well. The college holds the distinction of having erected the first junior college classroom building in the state. From this modest beginning, MJC has grown until it now provides an outstanding learning environment on two sites: the original MJC-East on College Avenue and MJC-West on Blue Gum Avenue in northwest Modesto. In addition to the two sites, more than 20 community sites are used to meet particular educational needs.

The area boundaries have also changed. In 1964, by action of the electorate, the boundaries were enlarged to include nearly 4,000 square miles, encompassing high school districts in Stanislaus and Tuolumne Counties, the Ripon High School District in San Joaquin County, the Gustine and Hilmar High School Districts in Merced.
County and the Harney Elementary School District in Santa Clara County. The district also includes the Bret Harte Union High School District, the former Copperopolis Elementary School District and the former Salt Spring Valley Elementary School District in Calaveras County. A Board of Trustees was elected in 1964 to govern the affairs of the expanded district. In 1965 the name Yosemite Junior College District was selected. It was later changed to Yosemite Community College District. The Yosemite Community College District also includes Columbia College, located in Columbia, California.

A comprehensive community college

Consistent with its philosophy of serving the educational needs of all people who reside in the College district, a wide range of programs and individual courses has been developed. MJC offers technical and vocational programs, courses to prepare students for transfer to a four-year university, and Associate degrees in over 70 areas of study. MJC also provides basic skills courses in English and math, and English Language Instruction for College classes (formerly ESL/English as a Second Language).

Credit and non-credit courses are offered day and evening as well as on Saturdays on the college sites and at locations throughout the college district. Some courses are also offered online. Credit courses fulfill requirements leading to degrees, diplomas and certificates. Non-credit courses are designed for members of the community who wish to develop or improve their skills and supplement their general knowledge. These courses do not fulfill requirements leading to degrees, diplomas or certificates. Community Education classes, tours and trips are participant fee-funded and carry no unit value. Such classes may be offered in the areas of vocational, recreational, and in-service training interests of the participants.

Open enrollment at MJC

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, part VI, Title 5 of the California Administrative Code, 51820-51823.

Exception to this policy will be made where health, safety, legal requirements, or the facility is a limiting factor in the conduct of the course. Students denied enrollment by this policy may appeal to the Vice President of Student Services.
TRANSFER AND COMPLETION RATES

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of our college district to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2012, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three year period. Their completion and transfer rates are listed above. These rates do not represent the success rates of the entire student population at the College nor do they account for student outcomes occurring after this three year tracking period.

Student Right-to-Know Rates for Fall 2012 Cohort

Completion Rate: 29.45%
Transfer Rate: 10.90%

Fall 2012 - Spring 2015 COHORT Data

Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became ‘transfer prepared’ during a three year period, from Fall 2012 to Spring 2015. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered ‘transfer prepared’. Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming ‘transfer prepared’ during a five semester period, from Spring 2013 to Spring 2015, are transfer students. For more information, visit:
http://srtk.cccco.edu/000/12index.htm

CENTER OF EXCELLENCE

Contact: Nora Seronello
Phone: (209) 575-6894
Website: www.coeccc.net

As part of the California Community Colleges’ Economic and Workforce Development Program, MJC hosts one of four, regionally-based Centers of Excellence. These Centers conduct environmental scanning on high growth, emerging, and economically-critical industries and their related workforce and occupational needs. Information from the scans is intended to assist the strategic planning and decision-making efforts of regional colleges in addressing local and regional workforce needs. The Centers also support regional and statewide marketing activities to increase employer awareness of the economic development services available from community colleges. The Central Region Center of Excellence serves the entire San Joaquin Valley/Mother Lode Region of California.
Curriculum & Instruction at MJC

OFFICE OF INSTRUCTION
Jennifer Hamilton, Ph.D.
Vice President of Instruction
Pat Wallace, Executive Secretary
Morris Memorial Building, 205 A
(209) 575-6058, FAX: (209) 575-6050

Articulation
Letitia Senechal Miller
MJC Articulation Officer
Phone: (209) 575-6713

Distance Education
Michael Smedshammer, Ph.D.
Instructional Design Coordinator
Phone: (209) 575-6281

Support Staff
Kelly Addington, Administrative Technician
Ginny Bounyavong, Instruction Office Specialist
Amanda Cannon,
Accreditation/Assessment Process Specialist
Heather Townsend, Curriculum Process Specialist
Donna Yarnal, Administrative Secretary

OFFICE OF INSTRUCTION
The Office of Instruction facilitates all teaching and learning activities at Modesto Junior College and provides an array of services to students and the college overall. It stores and monitors all course outlines, implements educational program requirements and produces the College Catalog and Class Schedule. College-to-college course articulation, including establishing transferability and general education patterns, is also managed through the Office of Instruction.

A COMPREHENSIVE CURRICULUM
The college offers courses designed to meet many diverse interests, educational needs, and vocational needs of its students. College programs are designed to meet particular needs and may consist of one course or a series of courses leading to a certificate or an associate’s degree. Many MJC courses can apply towards the first two years of a bachelor’s degree. Courses in art, literature, humanities, communication studies, foreign languages, music, and drama provide cultural enrichment for MJC students and the community. Music instruction, for example, is offered for beginners as
well as for those who already have a high level of proficiency. Performances by such groups as the Masterworks Chorus and Jazz Ensemble are examples of the cultural events offered to the community. All students are encouraged to participate in college community activities such as student government, athletics, forensics, art shows, music programs, and tutoring. Those who wish to broaden their horizons and to become more aware of themselves and the world about them will be drawn to offerings in health education, consumer education, psychology, child development, sociology, communication studies, valley plant life, science, art appreciation, and physical activities. Agricultural offerings include technician training courses as well as courses designed for persons anticipating employment or already employed in the field of agriculture. An advisory committee also serves the community services program. Business courses that meet occupational requirements of the community are offered in office administration, clerical training, accounting, computer science, computer graphics applications, and business operations. Certificate programs are available in several areas. Administration of Justice, emergency service instruction, and fire science are also offered and can lead to an Associate's degree.

Vocational programs prepare students for entry employment in such fields as allied health, animal husbandry, crop production, agricultural mechanics, office administration, computer science, computer graphics applications (desktop publishing and computer graphics), automotive technology, electronics, nursing, machine shop, accounting, human services, and engineering technology. Advisory committees serve the college in the development of vocational programs by helping to determine the need for and the content of occupational oriented courses. Courses are geared to the needs of industry and are modified as community needs change.

Other courses are designed to assist the individual in skills development. These include, among others, reading improvement, effective study skills, listening improvement, career awareness, job employment skills, introduction to mathematics, and pre-algebra. English Language Instruction for College (formerly ESL) is offered for non-native speakers of English who desire to learn English or to improve their proficiency.

Each year several hundred students transfer to four-year colleges and universities to continue their education toward bachelors' degrees. Modesto Junior College has earned a strong reputation statewide for its lower division preparation. Students who properly plan courses of study in their major and general education requirements are able to continue into their junior year in most majors with no loss of time or credit.

**ASSOCIATE DEGREES OFFERED**

**ASSOCIATE'S DEGREE**

Modesto Junior College awards associate in arts or associate in science degrees upon completion of a set program of study, usually done in two years (full-time), although completion time may exceed two years. The program of study includes coursework in a major or area of emphasis, as well as completion of general education. At Modesto Junior College, students must complete the associate's degree requirements, including a minimum of 60 units with at least a 2.0 grade point average. Some students plan to end their education with an associate's degree while others plan to transfer to universities to earn bachelors, masters, and/or doctorate degrees.

**ASSOCIATE'S DEGREES FOR TRANSFER**

The Student Transfer Achievement Reform Act (SB 1440 – Padilla), signed into legislation on September 29, 2010, enables the California Community Colleges and California State University to collaborate on the creation of associate in arts degree (AA-T) and associate in science degree (AS-T) transfer programs. This new law requires community colleges to grant an associate degree for transfer to a student once a student has met specified admissions, general education, and major requirements for the degree. Upon completion of the associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system.
Students are given guaranteed admission into the California State University (CSU) system, and further are given priority consideration when applying to a particular program that is similar to the student’s community college major. The law prohibits the CSU from requiring a transferring student to repeat courses similar to those taken at the community college that counted toward their associate degree for transfer.

**AWARDS OFFERED (OTHER)**

Modesto Junior College offers certificates and awards in the technical, applied, and business sciences to students who complete courses specified for each program. The curriculum is developed by faculty in cooperation with advisory committees comprised of business and industry representatives. Modesto Junior College offers three types of awards to recognize completion of technical programs and/or courses:

- Certificate of Achievement
- Skills Recognition Award
- Subject Mastery

**CERTIFICATES OF ACHIEVEMENT**

Certificates of achievement are granted for the completion of a specified program. These state-approved certificates acknowledge workplace competencies and job readiness. Specific course requirements for each certificate are listed with the program descriptions in the Catalog.

MJC certificate of achievement programs range in units from 12-39 and are offered in many areas such as agriculture, supervisory management, real estate, and medical assisting. Students should apply for their certificates during the semester in which they are completing their final program requirements.

**SKILLS RECOGNITION AWARDS**

Skills recognition awards are granted for the completion of a specified program whose total requirement is between 5½ and 17 units. These locally-approved programs are offered by community colleges to provide training needed in the community. Students should apply for their awards during the semester in which they are completing their final program requirements. Because these programs are locally approved and not formally recognized by the State of California, these awards do not appear on official student transcripts.

Financial Aid is not available for students enrolled in only Skills Recognition courses but students may receive the Board of Governor’s Fee Waiver (BOGW) if eligible.

**SUBJECT MASTERY**

Many individual courses and, sometimes multiple courses, are designed to culminate with a special subject award for students who successfully complete the course(s). Courses that provide CPR training, smog training, or typing are examples of classes that can result in the student earning proof of competency. Because these programs do not meet the state requirements for programs, these awards do not appear on official student transcripts, and instructors provide the proof of competency (subject award) when the class ends.

**CATALOG RIGHTS**

Catalog rights refer to the right of every continuing student to choose one, and only one, catalog under whose course requirements the student is to be evaluated for the purpose of determining whether the student meets the requirements for MJC graduation, certificate, or certification of general education. The continuing student may select the catalog which was in effect when the student initially enrolled at MJC or any catalog in effect thereafter through and including the semester when the student petitions for graduation or transfer certification.

**CONTINUOUS ENROLLMENT AND CATALOG RIGHTS**

A student remaining in **continuous enrollment** will retain catalog rights for graduation under the year of initial enrollment. Any academic record symbol entered on a MJC transcript (A through F, P/NP, I, W, MW) shall constitute a record of continuous enrollment. Continuous enrollment is defined as enrollment in at least one term (summer, fall or spring) of the academic year. Students should consult with their counselor for current information. For evaluation purposes, the college will use the terms listed in the catalog’s Academic Calendar to determine a student’s catalog rights.
PROGRAM RIGHTS FOR ALLIED HEALTH AWARDS

The curricula of the Allied Health programs are prescribed by their respective accrediting bodies. For this reason, programs may be required to modify their curriculum. Students entering these programs are given academic program rights to the requirements which appear in the catalog corresponding to the term/year in which they enroll in the first semester core curriculum of the program.

COURSE OUTLINES OF RECORD

All courses at MJC are governed by a course outline which includes but is not limited to the course objectives, content, methods of evaluation, and methods of instruction. All course sections, though varying in specific content and character, must include at the minimum the objectives, content and standards specified in the course outline. To obtain a copy of the official course outline for an MJC course, visit the MJC Instruction Office, Morris, 205E.

ACADEMIC FREEDOM

Students have the right to listen, the right to decide, the right to choose, the right to reject and the right to express and defend individual beliefs. As members of the MJC community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth.

The educational purpose of the college is best served by this freedom of expression. Students are free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Student performance will be evaluated on a broad academic basis, not on opinions or conduct in matters unrelated to academic standards.

COURSE EXAMINATIONS AND ASSESSMENTS

Examinations or evaluations will be conducted as indicated in the course outline. A final examination or evaluation will be held during the scheduled final examination period at the end of the semester unless otherwise authorized by the President or designee.

MJC’S COURSE NUMBERING SYSTEM

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-49</td>
<td>Non-degree courses. (Students who completed courses numbered 1 - 49 prior to Fall 1989 may use these courses towards a degree.)</td>
</tr>
<tr>
<td>50-99</td>
<td>Courses certified for associate’s degree credit.</td>
</tr>
<tr>
<td>100-199</td>
<td>Courses certified as appropriate for baccalaureate or associate’s degree credit.</td>
</tr>
<tr>
<td>200-299</td>
<td>Vocational courses certified as appropriate for baccalaureate or associate’s degree credit.</td>
</tr>
<tr>
<td>300 - 399</td>
<td>Associate’s degree credit vocational courses.</td>
</tr>
<tr>
<td>400-499</td>
<td>Upper division courses designed for the Baccalaureate Degree Program.</td>
</tr>
<tr>
<td>500 - 599</td>
<td>Contract Instruction. (Non-degree applicable)</td>
</tr>
<tr>
<td>700 - 799</td>
<td>Fee-funded courses. (Non-degree applicable)</td>
</tr>
<tr>
<td>800 - 899</td>
<td>Non-credit courses. (Non-degree applicable)</td>
</tr>
<tr>
<td>900 - 999</td>
<td>Basic education. (Non-degree applicable)</td>
</tr>
</tbody>
</table>

* All certified courses (courses numbered 100-299) are accepted by the California State University system. A list of courses transferable to the University of California system is available in the Counseling or Career Transfer Center, or at www.assist.org.

TYPES OF COURSES OFFERED AT MJC

MJC ONLINE COURSES

Online learning at MJC is a quality alternative to traditional classes. No distinction is made between the requirements and expectations for face-to-face courses and online courses. The content and outcomes of online courses are the same as those taught in the on-campus classroom. It is the flexibility of time and convenience that appeals to online students. Online courses require a self-disciplined student—one who is an active learner and does not procrastinate. Courses require participation through frequent online communication with instructors and other students. These courses are best suited for those who can manage time and take responsibility for their education. The student enrolled in an online class should have a solid understanding of Internet browsers (for example, Safari, Internet Explorer or Firefox) and using file attachments and word processing programs. They should also be good problem solvers who are not intimidated by technology.
Online students must have ready access to the Internet. If necessary, students may gain access to the Internet and MJC online courses via one of many MJC open computer labs during regular lab hours. Certain classes have specific software and course requirements; check the website for further information. For additional information on all MJC online courses, point your Internet browser to www.mjc.edu/online.

SPECIAL TOPICS AND PROBLEMS COURSES
Courses dealing with special topics and problems are offered with the course number of 198, 298 or 398. Each discipline may offer a special topics or problems course. The course title in the schedule of classes will identify the topic. Such courses allow participation in discussion, analysis and evaluation of a special topic or problem in a specific area of study. Topics are announced each semester in the schedule of classes. The courses are variable in hours per week and number of weeks according to the topic. The unit value may be ½, 1, 2, or 3. Field trips may be required. (CSU and UC grant credit for courses in this category contingent upon a review of the course outline.)

TRANSFERABILITY OF MJC COURSES
HECCC: PARTNERS FOR ACADEMIC EXCELLENCE
The Higher Education Consortium of Central California (HECCC), established in 1981, is a partnership of two universities and four community colleges committed to the advancement of academic excellence within a distinctly diverse region. Through dynamic and evolving collaborations, member colleges combine resources, share intellectual capital, facilitate innovative projects, promote professional development, and increase equitable access to higher education. HECCC members include California State University, Stanislaus; Merced College; San Joaquin Delta College, University of California, Merced; and the Yosemite Community College District, which includes Modesto Junior College and Columbia College.

If a student is planning to transfer between HECCC institutions, Equivalency Grids will detail how courses satisfy comparable requirements at the other participating institutions. For more information, click on HECCC Grids at http://www.csustan.edu/heccc/.
RECIROCITY OF GENERAL EDUCATION
REQUIREMENTS BETWEEN MJC AND
CALIFORNIA COMMUNITY COLLEGES
Students who transfer to Modesto Junior College from another California Community College will automatically be granted General Education (GE) reciprocity. GE reciprocity means that any GE requirements satisfied at the previous community college will be “passed along” or used to satisfy the same GE area requirement for Modesto Junior College. This policy applies to MJC-GE, CSU-GE and IGETC breadth patterns.

ARTICULATION OF COURSES
BETWEEN INSTITUTIONS
When the word “articulation” is used in education, it often has different meanings and connotations depending on the setting. Articulation at MJC refers to courses and the process of developing a formal, written and published agreement that identifies courses (or sequences of courses) on the MJC campus that are comparable or acceptable in lieu of specific requirements at another campus, often called the “transfer” or “target institution.” Successful completion of an articulated course assures the student and the faculty that the student has taken the appropriate course, received the necessary instruction and preparation, and that similar outcomes can be assured enabling progression to the next level of instruction at the transfer institution.

GRANT INNOVATIONS OFFICE
Phone: (209) 575-6985
The Modesto Junior College Grant Innovations Office is designed to enhance and sustain programs and services at Modesto Junior College through the development of additional grant funding sources for college priority activities in the areas of community development, economic development and workforce development. The Grant Innovations Office is here to develop federal, state and local grant proposals for both new and existing college programs and services as well as community partnership projects developed through the college processes.
Community Education

Pedro Mendez
Dean of Career Technical Education & Community & Workforce Development
Phone: (209) 575-6332
Email: mendezp@mjc.edu

Elizabeth Orozco-Wittke
Manager of Community Education & Contract Programs
East Campus, Morris Building, Room 104
Phone: (209) 575-6063
Email: commedoffice@mjc.edu
Website: www.mjc.edu/commed
Website: Registration: www.mjc4life.org

Support Staff
Rita Perez, Community Education Specialist
Vicki VanderVeen, Community Education Program Technician
Liz Vazquez, Administrative Specialist
Angela Vizcarra, Community Education Specialist

Community Education Programs
Kids Camp
MICL Program (Elderly)
MLMS Jewelry & Lapidary
Motorcycle & Scooter Training Program
Swim Classes
WELCOME TO MJC.EDU
Workforce Development

Workforce Development

The Workforce Development Department provides customizable services at the MJC campuses or onsite that address (1) the training needs of local employers, (2) provide short-term professional training for adults and (3) deliver college courses on-site for high school partners. Our staff is a dedicated team that deliver these services to our clients and partners and help MJC reach its mission of enhancing economic and workforce development in our community.

EMPLOYER CONTRACT TRAINING

Customized training services are provided to clients and can be coordinated at one of our campuses or on-site. Training available in topics including: Customer Service, Supervisory Management, Team Work, Safety, Supply Chain Management, Computer Training, Health Topics, OSHA Safety, Welding, Machining, Electrical, Maintenance, Lift Truck Training, etc.

Pedro Mendez
Dean of Career Technical Education & Community & Workforce Development
Phone: (209) 575-6332
Email: mendezp@mjc.edu

Araceli Zarate
Interim Director, Workforce Development
West Campus, Sierra Hall, Room 255
Phone: (209) 575-7889
Website: https://www.mjc.edu/instruction/teched/workforcedev/

Support Staff
Miriam Medina, Administrative Specialist
Leticia Perez-Hernandez, Program Specialist
Martha Rice, Program Specialist
(ACT) ACCELERATED CAREER IN TECHNOLOGY PROGRAM
ACT provides case management and participant monitoring for student enrolled in college skills recognition, certificate and degree programs. The ACT Program Team works to coach, monitor and provide services for adults seeking to quickly move through CTE programs and into the workforce. Students enrolled in ACT Program services receive: registration support, guided advising, weekly check-in services and workforce preparation and job placement support services. Student are sponsored through local employers and/or county programs. Education pathways include: Automotive, Auto Body, Computer Network Technician, Electro Mechanics, Electrician, Emergency Medical Technician, Logistics & Supply Chain Management, Maintenance Machinist, Manufacturing, Medical Assisting, and Welding. Programs update each year and are subject to change.

MIDDLE/ CORPORATE COLLEGE SERVICES
Aimed to provide connection and links with local high school district, Middle College offers school districts the opportunity to bring college courses on-site for students, closed to the public. College course formats consist of (1) face to face classes at the school site inclusive of registration and college service support for students and/or (2) online course access for students. Current partnerships include: Davis High School, Central Catholic High School, Aspire Vanguard and Ripon High School.

CAREER FEE BASED CLASSES & PROGRAMS
The Workforce Development Department offers unique fee based opportunities for students to enroll in career classes and programs that are structured to be self-funded. These programs are typically designed for cohorts and are short and intensive studies for the students. These programs are not college unit programs. Today, programs offered through this vehicle include: Phlebotomy Training and Pharmacy Technician Training.
Parking

Bill Watts, Campus Security Lead Officer
Dispatch (209) 575-6351

To purchase permits:
http://www.mycampuspermit.com/

To pay or contest citations: http://www.pmbonline.org/

The District and College provide parking facilities for vehicles for the sole purpose of conducting college business. All persons parking on campus must pay fees as prescribed by local ordinances.*

STUDENTS: All full or part-time students who have paid the required fee are eligible for first-come, first-served parking in designated student parking areas.

STAFF: All full-time and part-time staff who have paid the required fee are eligible for parking in specific assigned areas marked in black on a first-come, first-served basis. The term STAFF does not include tutors, student employees, or student assistants, but applies only to contract employees of the Yosemite Community College District.

PARKING RULES
The YCCD Parking and Traffic Ordinances are available for review at Campus Safety. A copy of the Condensed Parking Regulations is distributed with every semester or annual parking permit sold. Some basic rules are listed below for your convenience:

- Permits are required anytime a vehicle is parked anywhere on MJC property, except on Saturday, Sunday, school holidays, and Fridays after 5 p.m.
- A student or staff permit is not valid in visitor parking (Green). Visitor spots are for a maximum of 30 minutes. Staff spaces are marked black.
- Students are not authorized to park in staff parking until after 7 p.m., and must have either a hanging semester permit or a current day pass permit from the Day Pass Machines (Dispenser located in each parking lot).
- Students can purchase Parking Permits by visiting the website at:
  http://www.mycampuspermit.com/
- Campus Safety Officers do not know whose car belongs to whom. Leaving a note in the car in lieu of a permit is not valid for parking.
- Make sure to read Parking Lot signs carefully. Parking lots may be restricted as to which parking permits are valid during specific time periods. (If so, there are no special restrictions after the times indicated.) The following lots/areas are restricted during specific hours:
  - East—Lot 101 (near Baseball Field): Only Semester/Annual permits (A, T, S) until 12:00 Noon.
  - Permits must be displayed in such a way as to be clearly visible through the front windshield. If you use a sun shield, be sure not to cover the permit or knock it to the floor.

CITATIONS
All vehicles, operated or parked in violation of the YCCD Parking and Traffic Ordinances will be cited with a Municipal Court citation under authority of 21113a of the California Vehicle Code. Campus Safety Officers use electronic citation writers that dispense a citation similar in appearance to a receipt clearly marked “NOTICE OF PARKING VIOLATION.” Specific information regarding payment of the citation online or by mail or to contest the citation is located on the back of the notice; along with warnings about failure to respond in a timely manner.

PARKING ENFORCEMENT HOURS/DAYS:
Enforcement of parking and traffic regulations is continuous (24 hours a day, seven days a week). Parking fee and staff reserve regulations are not in effect from 5 p.m. on Friday to 7 a.m. on Monday and on college holidays and exempt days.

The visitor parking areas on North and South Drive adjacent to the Morris Building are restricted to 30-minute parking for guests of the college, as are all visitor parking zones on East and West campus. Parking permits are NOT valid in visitor parking areas.

* The District/College does not take custody of vehicles and only rents space. No responsibility is assumed for fire, theft, damage, or loss to vehicles, their occupants, or contents while on District/College property.
**LOST AND FOUND**

East Campus: Campus Safety Operations, Journalism 150  
Hours 8:00 am to 5:00 pm, M-F.  
Phone: (209) 575-6615  
West Campus: Campus Safety Operations, John Muir 151  
Hours 8:00 am to 8:00 pm, M-F  
Phone: (209) 575-6351

Found property should be turned in to Campus Safety within twenty-four hours. Found property can be turned into the Campus Safety Operations on either campus or to any member of the Campus Safety staff. Property turned in on East campus may be moved to West for storage after one week. Found property may be claimed at the Campus Safety office on West Campus only.

**EMERGENCY LOCATING SERVICE**

East Campus, Student Center  
Student Development & Campus Life Office  
Phone: (209) 575-6700

The Emergency Locating Service offers students the ability to leave an MJC telephone number with family members, child care provider, or employers in case of an emergency. In an emergency, the Locating Service tells MJC where the student “should” be, and a staff member is dispatched to contact the person in his/her class. To be a part of the Emergency Locating Service, a student must complete an **Emergency Locator Form** which indicates the location and time of each class. Forms must be updated each semester. Emergency Locating Service Forms are available in the Student Development and Campus Life Office, located inside the East Campus Student Center, next to the Cafeteria. Without an Emergency Locating Service Form on file, a message cannot be delivered to a student.
Safety

Bill Watts, Campus Security Lead Officer
Campus Safety, Security Operations

West Campus: John Muir Hall, Room 151
Phone: (209) 575-6351
Hours: Sun. - Sat. (24 hours)

East Campus: Journalism, Room 150
Phone: (209) 575-6615
Hours: Mon. - Fri. (8:00 am - 5:00 pm)

EMERGENCIES: DIAL 911
Phone: (209) 575-6351

CAMPUS SAFETY
Campus Safety officers provide 24-hour protection throughout the college’s East and West campuses, including parking areas. Each student is asked to assist in the control of vandalism, burglary and other crimes by reporting suspicious activity to the Campus Safety Department.

CAMPUS SAFETY STATISTICS
The Crime Awareness and Campus Security Act of 1990 requires institutions to report data for certain criminal acts that occur on or adjacent to the campus. The Yosemite Community College District’s Campus Safety Department and local law enforcement reported the following crimes on or adjacent to the Modesto Junior College campus for 2013-2015.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Sexual Offenses - Non-Forcible</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sexual Offenses - Forcible</td>
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<td>0</td>
</tr>
<tr>
<td>Murder</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aggravated Assault</td>
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<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Robbery</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Burglary</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Arson</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vehicle Theft</td>
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<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Weapons Law Violations</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Drug Law Violations</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Liquor Law Violations</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Hate Crimes</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Stalking</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

CAMPUS SECURITY ACT
The Annual Security Report is available upon request from Campus Safety/Security at (209) 575-6005, or online at www.mjc.edu/adminservices/safety/. This report also includes statistics for reported fires at MJC Student Housing.

DRUG AND ALCOHOL ABUSE PREVENTION
Through the Drug-Free Schools and Communities Act Amendments of 1990, learning institutions are required to implement drug prevention programs. This includes the annual notification of the following drug and alcohol use policy.

MJC is committed to the success of all students. Drug and alcohol use can be a major hindrance to achieving a successful school career. There are physical and psychological health risks associated with drug and alcohol use, including but not limited to, exhaustion, decreased immunity, depression, and decreased coordination. Generally, persons who use illegal drugs and/or abuse alcohol can expect a decline in their quality of life. MJC Student Services offer education and information on drug and/or alcohol use and also can refer students to community agencies for counseling or rehabilitation. Pamphlets and literature are available through the Health Services website at www.mjc.edu/healthservices. Call 575-6037 for more information.

According to MJC’s Student Code of Conduct, students are subject to disciplinary action for the possession, use or distribution of illicit drugs and alcohol on college property or during college-related activities. This can include expulsion from college and/or punishment under local, state and federal law.

EMERGENCY CALL BOXES
There are emergency call boxes located in most of the college parking lots. The call boxes may be used to call:
- for a security escort,
- for a battery jump or door unlock,
- for any type of emergency service on campus, and
- to report day pass machine malfunctions.
ESCORT SERVICE
Campus Safety officers or Security Escorts are available during day and evening hours to escort students to their cars. An escort may be requested by calling Campus Safety or using one of the parking lot call boxes.

PERSONAL SAFETY TIPS
In the interest of ensuring personal safety, students are encouraged to observe the following precautions:

- Avoid isolated places, day or night.
- Always walk in pairs. There is safety in numbers.
- Be security-conscious. Watch out for yourself and others, and their property.
- Be responsible. Report all crimes and unusual activity to Campus Safety.
- Use well-lighted walkways.
- Park in well-lighted areas, away from shrubbery and trees.
- Always lock your car and take your keys.
- Do not leave valuables in your vehicle.

OPERATION ID
Operation ID is a service that allows you to register your valuable property at no cost in case it is ever lost or stolen. By registering your laptop, bicycle, eReader or other valuable property, there is a much greater chance of recovery because it can be identified as yours if it is found. Registration is simple and fast. Just bring your property to either Campus Safety counter: complete the property form, receive a sticker, engrave your property with your CA driver's license and Campus Safety will photograph your property and enter the information in a data base. Your information will be kept for 3 years. Remember to report your property missing if you believe it is lost or stolen.

DATE RAPE
Sexual activity without mutual and expressed consent is sexual assault. Acquaintance/date rape is a serious problem on college campuses. On college campuses, 90% of the women who are raped know their attackers. More than half of these rapes occur on dates. Incidents of alcohol and drug facilitated rape are increasing in college campuses. Watch your drink and watch out for your friends!

What women and men can do to prevent rape:

- Know and clearly express sexual intentions and limits out loud.
- Go to parties and clubs with friends you trust, and leave with them too.
- If you think you are in danger, call a family member or friend for help or go to a safe place.
- Be ready and willing to yell, fight, and run.
- Tell someone if you have been sexually assaulted.
- Learn what resources are available.
- Contact MJC Health Services for additional Information.

Awareness and clear, assertive communication are the best tools for prevention. For more information concerning the issue, contact the Health Services Office in Morris Memorial Building, Room 108.

SEXUAL ASSAULT
MJC recognizes that sexual assault is a serious issue and will not tolerate acts of sexual assault on campus or off-campus during any college-sponsored activities. The college will investigate all allegations of sexual assault and take appropriate disciplinary, criminal, or legal action.

Who to Contact if You Have Complaints, Questions, or Concerns:

Title IX requires the College to designate a Title IX Coordinator to monitor and oversee Title IX compliance. Your campus and district Title IX Coordinator’s are available to explain and discuss: your right to file a criminal complaint (sexual assault and violence); the District's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other relate matters.

District Title IX Coordinator
Lloyd Jackson
(209) 575-6310

Campus Title IX Coordinator
Dr. James Todd
(209) 575-6060

https://www.yosemite.edu/title9/

The college strongly encourages all members of the campus community to provide a written or verbal report regarding any incident of sexual assault to Campus Safety. College counselors and Health Services staff will make appropriate support services and referrals available to students who are victims of sexual assault.
Getting Started at Modesto Junior College

Applying for Admission

ENROLLMENT SERVICES (ADMISSIONS, RECORDS, ASSESSMENT, PETITIONS)

Francisco Bañuelos
Dean of Enrollment Services, Special Programs & Student Learning
Phone: (209) 575-6853
East Campus Admissions: Student Services Building, Room 102
West Campus Admissions: Yosemite Hall, Room 147
Website: www.mjc.edu/studentservices/enrollment

Mailing Address:
MJC Enrollment Services
435 College Avenue
Modesto, CA 95350-5800

ELIGIBILITY FOR ADMISSION

Any person who meets at least one of the following requirements is eligible to attend Modesto Junior College:

- Has graduated from an accredited high school; includes students who have received high school certificates of completion (or equivalent) but did not pass the California High School Exit Exam.
- Has passed the California High School Proficiency or the GED test.
WELCOME TO MJC.EDU

- Is a non-high school graduate, 18 years of age or older, who is no longer attending high school and is able to benefit from instruction.
- Is a 7th-12th grade student, who is at least 14 years old, who has met all established special conditions for admission as a special student pursuant to Sections 4880, 48800.5, 48802, 76001, and 76002 of the California Education Code as well as policies of Yosemite Community College District, has written permission from the high school principal (or junior high school superintendent) and parent or legal guardian. Please note that concurrently enrolled high school students will register in Level 4, regardless of other programs or classes they are enrolled in.
- An international student who has completed the international student admission procedure.

HOW TO APPLY FOR ADMISSION

- Individuals who have never attended MJC as well as students who have not attended within the past year, must submit an Admissions Application using CCCApply. As soon as the application has been processed by the Enrollment Services Office, students are provided with information regarding assessment, orientation, and advising. This information will be sent only to the student’s personal email address. Students must complete application and core matriculation services by the college established deadline in order to be eligible for enrollment priority. College deadline is posted on the MJC website.

STEPS FOR ADMISSION:

2. Set up college email account.
3. Complete College Orientation
4. Complete the Placement Assessment tests.
5. Schedule an Advising appointment.
6. Submit any previous high school and/or college transcripts.
7. Apply for financial aid.

Junior high, high school, international students and students being readmitted following dismissal must follow admission requirements on the following pages.

TRANSCRIPTS

Students should arrange to have one official transcript of all previous college and high school work mailed to the MJC Enrollment Services Office. High school seniors may request their schools to send their transcripts at the close of their graduating year after their diplomas have been posted to their official transcript. Students who plan to use completed courses from other colleges to satisfy MJC prerequisites and/or core matriculation requirement (assessment) must have official transcripts in the MJC Enrollment Services Office at least six weeks prior to their registration date. These transcripts become the property of MJC and cannot be returned to the student, copied, nor forwarded to other colleges. The MJC Enrollment Services Office will accept hand-carried transcripts that are in an unopened and sealed envelope.

CONCURRENTLY ENROLLED COLUMBIA COLLEGE STUDENTS

Students who are concurrently enrolled at Columbia College and who wish to enroll at MJC should consult with the Columbia College Admissions Office. Columbia College Admissions staff will make arrangements with MJC for authorization. Columbia students may use Columbia College assessment scores and/or course completions to satisfy MJC assessment requirements. See “Intradistrict Course Equivalencies Between Modesto Junior College and Columbia College” on page 121 for more information.
CALIFORNIA RESIDENCY

It is not necessary to be a resident of California (as defined in the Education Code) to attend MJC. New and returning students are classified as either a California resident or a California non-resident for out-of-state tuition purposes. In order to determine California residency during the application process, students are required to submit copies of USCIS documentation and/or documentation proving physical presence and showing intent to make California their permanent residence. Students must be residing in California at the time the request for consideration is made. The burden of proof to establish residence is on the student. For more information, contact the Enrollment Services Office.

DEFINITION OF A NON-RESIDENT

A "non-resident" is a person who has either not resided in California for the full one-year and one day period before the residence determination date (first day of classes for each semester) or is a person who is precluded by USCIS from establishing residency, regardless of length of presence in California. Nonresident students are required to pay $234 per unit tuition, in addition to their other fees. Non-resident fees may be exempted for students who qualify under AB 540. For more information, please visit our website at: http://www.mjc.edu/studentservices/enrollment/residency.

RESIDENCY FOR MILITARY PERSONNEL (AB 13)

- A Veteran who lives in the state of California in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls at MJC within three years of discharge from a period of active duty service of 90 days or more with a character of discharge other than bad conduct or dishonorable.
- A spouse or child using transferred benefits who lives in the state of California in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls at MJC within three years of the transferor’s discharge from a period of active duty service of 90 days or more with a character of discharge other than bad conduct or dishonorable.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in the state of California in which the institution of higher learning is located (regardless of his/her formal state of residence) and enrolls at MJC within three years of the Service member’s death in the line of duty following a period of active duty service of 90 days or more.

RESIDENCY FOR CREDENTIALED EMPLOYEES/MIGRANT WORKERS

Credentialed employees and their dependents, migrant agricultural workers and their dependents may also be considered California residents for educational purposes.

RESIDENCY AND NON-CITIZENS

Non-citizen students, if their visa does not preclude them from establishing residency in the United States, may be classified as residents if they have resided in California more than one year and if USCIS documents were issued or approved more than one year and one day prior to the beginning of the term. Examples of USCIS documentation that may be requested include:

- Resident Alien Card
- Permanent Resident Card
- I-94 Form
- Visa
- Passport
- Employment Authorization Card

Students whose USCIS documents were issued less than one year and one day prior to the start of the semester will be considered non-residents for tuition purposes.

Aliens may establish residence if not precluded by the Immigration and Nationality Act from establishing domicile in the United States; provided that the student has had residence in California for more than one year and one day prior to the residence determination date. Non-resident students should carefully read information regarding
AB540 that exempts non-resident tuition for non-resident students who have attended California high schools for at least three years and have graduated from a California high school.

**AB 540/AB 2000: NON-RESIDENT TUITION EXEMPTION**

Consistent with AB 540/AB 2000, non-resident and undocumented students who meet all of the following requirements can be exempted from paying non-resident tuition. Students who are exempted from paying non-resident tuition (pursuant to Section 68130.5 and Section 68130.7 of the California Education Code) do not become residents for eligibility purposes for any state-funded program.

Students who meet all of the following criteria will be exempted from paying non-resident tuition:

- The student must have attended a California high school for three or more years, (3 years of high school credit in combination of attendance in any California elementary or middle school may be substituted for 3 years of attendance in a California high school).
- The student must have graduated from a California high school or attained the equivalent thereof.
- In the case of a student without lawful immigration status, an affidavit must be filed with the college that indicates the student has applied for legalization or will do so as soon as the student is eligible to do so. The student must currently live in California.
- Students who are non-immigrant aliens (the most common being the F-series student visas and B-series visitor visas) are not eligible for this exemption.
- Students can obtain the AB 540/AB 2000 Form from the MJC Enrollment Services Office or online at: [www.mjc.edu/studentservices/enrollment/](http://www.mjc.edu/studentservices/enrollment/).

**DETERMINING CALIFORNIA RESIDENCY**

Residency is determined by the length of physical presence in the State of California (minimum of one year and one day prior to the first day of the semester or summer session) and the “intent” to make California one’s residence. Students who have resided in California fewer than two years must also prove “intent” to become a California resident. To prove intent, students who have lived in California fewer than two years must submit two proofs from the following list with their Admissions Application:

- Owning/renting residential property in California for personal use;
- California voter registration;
- California State income taxes;
- California driver’s license or identification card;
- California motor vehicle registration;
Having an active California checking and/or savings account;
- Other proofs of intent may be considered by the college.
- For all other unique situations, students should consult with the Enrollment Services Office.

**RESIDENCY STATUS RECLASSIFICATION**

**NEW STUDENTS**

Prospective students wishing to reclassify their residency status requirements must first complete an Admissions Application. Once residency has been determined by the Enrollment Services Office, students may then submit a request to reclassify their status in the Enrollment Services Office by completing a Residency Consideration Form. The appeal will be reviewed by the Director of Admissions and Records. Appeals will be answered in writing and decisions will be final. International students whose visas preclude establishment of residency will not be granted an appeal. For questions about residency, telephone the Admissions Office: (209) 575-6853.

**CONTINUING STUDENTS**

Continuing students whose residency status may change in a future term should complete a Consideration form in Enrollment Services. Students may be asked to provide additional supporting documentation. With appropriate documentation, if the change status is approved, Enrollment Services staff can make the change immediately for the future term. The burden of proof to establish residency is on the student.

Please refer to the Enrollment Services website for the deadlines to submit residency consideration forms:

http://www.mjc.edu/student_services/enrollment/residency

**ADMISSION OF SPECIAL PART-TIME STUDENTS**

(WHO ARE AT LEAST 14 YEARS OF AGE)

Advanced admission is granted for academically superior K-12 students who are at least 14 years old by the start of the semester for which they are applying. In order to be eligible to enroll in college-level courses (credit courses numbered 50 or higher), K-12 students must have met all the established special conditions set forth in the Yosemite Community College District Board Policy & Procedures, as well as California Education Code Sections 48800, 48800.5, 48802, 48802, 76001, and 76002. The school district principal or designee must determine that the petitioner is capable of benefiting from advanced scholastic or vocational (college-level) work.

Special part-time students, who are at least 14 years old by the start of the semester for which they are applying, may be determined to be eligible for advanced admission in MJC college-level courses (MJC credit courses numbered 50 or higher) if the school district of residence does not provide courses of advanced scholastic or vocational study to benefit the petitioner, and if student has submitted a Modesto Junior College Admissions Application, a completed Petition for Special Part-Time Admission form, a Health Consent form, a letter of recommendation signed by their principal/superintendent, and proof that they have demonstrated an English 101 ability on the MJC Assessment Test is required for junior high students. All students must satisfy class prerequisites, if necessary. To obtain these forms, go to the Enrollment Services Office or to online forms at www.mjc.edu/forms.

Please note that concurrently enrolled high school students will register in level 4 regardless of other programs or classes they are enrolled in. Special part-time students who wish to enroll in more than 11 units must have formal approval from their school’s Board of Trustees and approval of the MJC Dean of Enrollment Services prior to enrollment. Enrollment fees for advanced admission students who enroll in up to 11 units will be waived. Students who are admitted as special full-time students (11.5 units or more) will be required to pay their enrollment fees.
Home-study students, who are at least 14 years old by the start of the semester for which they are applying, must include with their admission packet (see above) a certification letter (Private School Affidavit) from their County Schools' Office or the State of California.

All special part-time students are subject to all college regulations regarding attendance, conduct, scholarship and fee payment. Courses attempted and units earned will be recorded on the student's permanent record and may be used toward meeting graduation, transfer, or certification requirements at Modesto Junior College.

Enrollment fees for advanced admission students who enroll in up to 11 units will be waived. Students who are admitted as special full-time students (11.5 units or more) will be required to pay their own enrollment fees. See page 49 for current enrollment fees.

Upon high school graduation, each graduating senior who enrolled in MJC classes as high school student, must complete the Admission Application again so that high school graduation information can be updated. Failure to do so will delay registration for classes.

In the event that a high school student wishes to receive high school credit for a course taken at MJC, a student can request that transcripts be sent to the high school. Students may request transcripts in the Enrollment Services Office, Student Services Building, Room 102, during final exam week or later. Each high school will make the determination whether or not college credits can be used to satisfy requirements at the high school.

Home-study students must include with their Admissions packet (see above) a certification letter (Private School Affidavit) from their County Schools' Office or the State of California.

In order to be approved for a second or more semester as a concurrently enrolled high school student, the high school student who is a continuing MJC student must be in good academic standing at MJC. Good academic standing is defined as having a cumulative 2.0 or higher MJC grade point average. The number of W's in relationship to attempted units will also be taken into consideration.

NOTE: It is expected that all special part-time students enrolling in college courses have the maturity to function effectively on a college campus. No special arrangements for additional supervision of underage students are available. College courses are designed for adult students. In a very small number of disciplines, course content may be unusually frank in order to deal with scholarly discussion of behavioral, artistic, human or other issues. Unlike K-12 schools, colleges do not contact parents in advance to inform them of these issues. Parents are hereby notified that it is their responsibility to assure that their child is able to handle the college environment, as well as the content of the courses in which the student enrolls. Parents may wish to investigate the curriculum prior to enrolling their student if they have any questions or concerns.

**EARLY COLLEGE PROGRAM**

East Campus, Morris Memorial, 112
Phone: (209) 575-7858

**WHAT IS EARLY COLLEGE?**

Early College at MJC works with teachers, counselors, principals, parents and students to help motivated high school students “jump-start” careers and college by enrolling in appropriate college courses while still in high school. Students may compress the time necessary to complete a college degree and count units to enhance registration priority when enrolling at MJC after high school. By enrolling in regular classes or in after-school or summer sessions, high school students gain important academic, recreational, and/or work readiness skills while earning college credits.
HOW TO PARTICIPATE

- For students attending one of the Early College High Schools on or near the MJC campus, students have the opportunity to earn college credits towards certificates, associate’s degrees or transfer preparation while also completing their high school diploma.
- For students attending regular high schools, students work with their high school counselors to determine eligibility for advanced admission (readiness for academic or vocational college-level course, 3.0+ GPA, or special recommendation by high school principal or designee). Go to www.mjc.edu for more information.

2+2 PROGRAM
East Campus, Morris Memorial, 112
Phone: (209) 575-7858

BENEFITS OF PARTICIPATION

- Students receive college credit for course work completed in high school. A student must complete a fall or spring semester at MJC before the articulated college credit is placed on his/her MJC transcript. Additional requirements exist for courses taken in agriculture, mathematics or foreign language.
- Use the 2+2 class in lieu of an MJC introductory course, which can save time and money.
- Use the articulated course work toward a certificate, AA/AS degree or transfer.

ADMISSION INTO SPECIAL ACADEMIC PROGRAMS

Programs such as Nursing, Respiratory Care, Medical Assisting, and the Fire Academy require special program admission in addition to college admission. After submitting a completed Admissions Application to the Enrollment Services Office, contact either the Allied Health Division (209) 575-6373 for information about admission into Nursing, Respiratory Care, and Medical Assisting, or contact the Public Safety division at (209)548-5701 for information about the Fire Academy.

YCCD INTER-DISTRICT ATTENDANCE

The Yosemite Community College District maintains a free exchange of students with all community college districts in the State of California. No inter-district permit is necessary to attend Modesto Junior College from any other community college district in California.

READMISSION AFTER DISMISSAL

A student who has been academically dismissed (see “Academic Probation and Dismissal” on page 58) may petition for readmission by meeting with a counselor and completing a Petition for Readmission during Counseling Department deadlines after receiving notice of dismissal. Forms are available in the Counseling Center. Petitions will be reviewed by the Dean of Counseling & Student Learning and counselors. The student may be readmitted if there is strong evidence showing promise of success.

The Dean of Counseling & Student Learning, and/or a counselor, upon granting readmission to a dismissed student, may impose certain restrictions, such as unit load, periodic grade reviews, etc., which are felt to be in the best interests of the student. A readmitted student is subject to immediate dismissal should he/she fail, at any time, to meet the conditions stipulated by the Dean of Counseling & Student Learning. If the petition is denied, the student may apply for readmission after one year has passed since dismissal.
MATRICULATION CORE SERVICES (ORIENTATION, ASSESSMENT, ADVISING & EDUCATIONAL PLANNING)

Students must complete the core services, (orientation, assessment process, abbreviated plan) by the college established deadline in order to be eligible for priority registration. The College deadline is available on the College website.

ORIENTATION
Website: www.mjc.edu/studentservices/enrollment/orientation
Phone: (209) 575-6789

All new and returning students, who do not have an associate degree or higher and who have not previously attended an MJC college orientation are required to attend orientation prior to their registration date and time. Orientation familiarizes each new MJC student with campus policies, procedures, and student rights and responsibilities.

Arrangements can be made for students with disabilities and limited English-speaking students who require accommodations. To make accommodations, students should request accommodations 10 days before they plan to attend a workshop.

ONLINE ORIENTATION IS AVAILABLE AT www.mjc.edu/studentservices/enrollment/orientation
In person Orientation workshops are scheduled before each new and returning student registration period. Go to www.mjc.edu to find current orientation/advising workshop sessions. Reservations are required for in person orientation. Service is on a first come first serve basis.

ASSESSMENT
MJC Testing Center
Phone: (209) 575-6853
Website: www.mjc.edu/assessment

ABOUT ASSESSMENT
Assessment is the process through which a student’s skill level in a particular subject area is measured through standardized testing using multiple measures for the purpose of placement into MJC courses. These tests are intended to measure skills which research has shown to be closely related to academic success. In combination with other measures, test results represent student strengths and capabilities.

IMPORTANCE OF THE ASSESSMENT PROCESS
Math and English or English Language Instruction for College (ELIC) assessments are required of ALL STUDENTS who are completing courses to earn an associate degree, certificate, transfer to a university, to improve job skills, career development, or who are undecided; as well as students who have completed at least 15 units, regardless of their goal. There is no pass or fail, and these tests do not determine admission to the college. The results are used to assist counselors and students in selecting the appropriate level of course work. Students are encouraged to discuss test results with a counselor prior to registration.

HOW TO PARTICIPATE IN ASSESSMENT
To be admitted to a test session, an admissions application must be on file in the Enrollment Services Office. Picture ID will be required for test admittance. Seating in the Testing Center is determined on a first-come, first-served basis. Tests begin promptly, and students may not enter after a test has begun. All tests are computerized except for the CASAS test. Students will be admitted to the Testing Center as computers become available. Students with disabilities who need special testing accommodations should notify Testing Center staff of their needs at least 10 days before they plan to test.
Students who may be exempt from testing are welcome to take the assessment tests and to participate in the assessment process. See “Assessment Exemptions” below for more information.

Once a student receives a placement recommendation by the college’s assessment process AND the student enrolls in the recommended course, the student may not re-test for purposes of enrolling into a higher level course.

NOTE: Most math, English composition, ELIC/ELW and science courses require assessment or prerequisite course completion.

MATHEMATICS ASSESSMENT
The mathematics assessment consists of three different exams:

- Arithmetic
- Elementary Algebra
- College Level Math

The number of questions a student will answer will vary based on the student’s individual skill level and ACCUPLACER’s internal adaptive feature.

ENGLISH AND READING ASSESSMENT
Two sections make up the English/Reading exam:

- Reading Comprehension
- Sentence Skills

Students who are taking the test for English advisory and placement purposes must take both sections. The Reading section alone will only be given to students who have previously taken the English assessment, or who have completed an English course, but still need a reading recommendation. Check with a counselor for other program needs.

ELIC ASSESSMENT (ENGLISH LANGUAGE INSTRUCTION FOR COLLEGE)
Students who plan to enroll in credit ELIC classes must take the Accuplacer ELIC assessment test prior to registration. The assessment consists of:

- Online multiple choice test questions and background information questionnaires

Students who plan to enroll in English for Life and Work courses (ELW 901-906) must take the CASAS placement test.

Both tests are administered in the MJC Testing Center.

ASSESSMENT EXEMPTIONS
Students may be exempt from testing if they:

Have an Associate or higher degree; or

- Have taken other California community college assessment tests and have submitted test results to MJC Enrollment Services Office at least 6 weeks prior to registration date and time; or
- Have taken other college math, chemistry, English composition or ELIC classes and have submitted official transcripts to the Enrollment Services Office, at least 6 weeks prior to registration date with completed Prereq Clearance Form; or
- Are enrolling only in activity classes, apprenticeship classes, employer-required classes, personal growth/enrichment classes, classes to maintain a certificate or license, or other non-credit classes only, and have completed fewer than 15 units.

Being exempt from testing does not release the student from any prerequisite requirements a course may have.
RETEST PROCEDURE
Students may retest one time after 60 days from the original test date. Students may not retest if they have:
- Completed a college or MJC English, reading or math class or
- Earned a “W” (within the last two years) in an MJC English, reading, or math class

If you would like to retest prior to the 60 days or more than once, please contact the appropriate division office listed below to request a petition:
- Literature & Language Arts (209) 575-6149
- Science, Math & Engineering (209) 575-6173

ADVISING AND EDUCATIONAL PLANNING
COUNSELING SERVICES
Martha Robles, Dean of Counseling and Student Learning
East Campus, Student Services Building, Room 226
Phone: (209) 575-6080
West Campus, Yosemite 118
(209) 575-7799

Some students have already decided on their educational or career goals before entering MJC. Others are exploring different educational or career paths, and may enter MJC without an educational goal or major.

BEFORE SEEING A COUNSELOR
Students must complete the following steps before making an appointment to see a counselor:
- Apply for admission;
- Attend an orientation;
- Complete the assessment process.

We encourage students to use MJC’s counseling, assessment, and career services to help set and reach educational and career goals. We also encourage students to build relationships with faculty who teach in their areas of interest. Faculty advisors can provide students with the information, support and guidance to help them reach their goals.

WHO IS ELIGIBLE FOR COUNSELING?
All current or returning MJC students are welcome to meet with a counselor. Educational counseling is required for all new students who indicate on their admissions application that they:
- Have an associate’s degree and are pursuing another degree, a certificate, or transfer; or
- Plan to earn an associate’s degree; or
- Plan to earn a certificate; or
- Plan to earn a skills recognition award; or
- Plan to transfer to a four-year university; or
- Plan to learn job skills or prepare for career advancement; or
- Are undecided about their educational and career goals.

Educational counseling is available in the Counseling Center. New student advising sessions are pre-scheduled during peak periods. Students should sign up prior to the new student’s registration date and time. Returning students may drop-in or call the Counseling Center. Students who are exempt from educational counseling are also welcome to meet with a counselor.
GUIDANCE CLASSES

New students are encouraged to enroll in a Guidance class, taught by MJC counselors, during their first semester. Guidance courses are essential to student success. In a guidance course, students learn to:

- Each student will develop a comprehensive educational plan;
- Acquire, organize, and demonstrate problem-solving and decision-making skills;
- Explore, evaluate, and pursue career and educational options;
- Develop social, intellectual, and emotional competencies;
- Develop needed skills and strategies to maximize the educational experience;
- Understand themselves, others and their environment to enable them to develop individual value systems and life styles.

There are seven Guidance (GUIDE) courses from which to choose, which also fulfill the Guidance requirement for the associate degree at MJC: Educational Planning; Career Awareness; Job Development Skills; Orientation for Re-entry Adults; Success Strategies for Transfer Students; AG 115, introduction to Agricultural Education Careers; and STSK 78, College Study Skills, also satisfy the Guidance graduation requirement.

EARLY ALERT

MJC utilizes a program called Early Alert. This program provides intervention for students at the earliest signs of academic problems. Through Early Alert, faculty identify students enrolled in their classes who are experiencing problems and refer them electronically to a service on campus. Staff members of that service contact students for further follow-up.
WELCOME TO MJC.EDU
Registering for Classes

ENROLLMENT SERVICES (ADMISSIONS)
Francisco Bañuelos, Dean of Enrollment Services, Special Programs, & Student Learning
East Campus: Student Services Building, Room 102
West Campus: Yosemite Hall
Phone: (209) 575-6853
Website: www.mjc.edu/studentservices/enrollment

WHAT IS REGISTRATION?
Registration is the formal process of arranging desired courses into a program of classes and securing a seat in the classes. Students may register online at PiratesNet (http://piratesnet.mjc.edu) or in person in one of the two Enrollment Services Offices on MJC’s East or West Campus at the time of their scheduled registration date/time or any time thereafter during scheduled registration.
REGISTRATION GROUPS (IN ORDER OF PRIORITY)
At MJC, the Priority Registration System is used to determine the order in which Matriculated students will register. A Matriculated student is one who has completed Orientation, Placement Assessment and an Ed Plan during an Advising session. To maintain priority, Matriculated students must not have more than 100 degree applicable MJC units and be in good academic status.

Registration priorities shall be based on the following criteria:

For registration priorities 1 through 4, the following academic standards apply: students who are fully matriculated by the college established deadline (see MJC website for deadline dates) and who have no more than 100 degree applicable units, and who are not on academic and/or progress probation, 2nd semester.

Level 1. Students who meet eligibility and participation requirements for programs with mandated registration priority: Member or former member of Armed Forces or Military Reserves; Foster youth or former foster youth; CalWorks; DSPS; and EOP&S.

Level 2. New and Continuing students meeting eligibility and participation requirements for programs designated by the college.

Level 3. Continuing and New students who are fully Matriculated

Level 4. Continuing and New students who:
   a. Are not fully matriculated
   b. Have no more than 100 degree-applicable units
   c. Are not on academic and/or progress probation, 2nd semester
   d. Currently enrolled high school students

APPEAL PROCESS
An appeal process is available to all students who lose enrollment priority due to extenuating circumstances that can be verified (verified documented accident, illness, or other circumstances beyond the students control), academic or progress improvement or a verified disability. See appeal form for additional information. To appeal students must compile and submit a Appeal for Loss of Priority Registration form by the College established deadline. The College established deadline is available on the MJC website. Return the completed form to Enrollment Services.

HOW TO REGISTER
To register for classes, on the registration date/time provided to you, use PiratesNet at http://piratesnet.mjc.edu or go to the Enrollment Services Office, either in the East Campus Student Services Building or West Campus Yosemite Hall. Make sure your class schedule is planned with alternative courses, in case your first choice is closed.

TO FIND OUT YOUR REGISTRATION DATE
Student registration dates and times are posted each term on PiratesNet during the following months; however, prior to being posted on PiratesNet, students will receive their registration date and time in an email sent to them at their college issued PiratesLink email address. All students are encouraged to activate their PiratesLink email account and to check if often. This is the only way MJC communicates with students. Activate your PiratesLink email address at http://piratesnet.mjc.edu.

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New and returning students receive their registration dates and times as soon as their admissions application is processed. Students can also check PiratesNet.

REGISTRATION BLOCKS (OUTSTANDING OBLIGATIONS)
If you have, for example, forgotten to pay a fee, return a library book, musical instrument, or athletic uniform, you may be blocked from registering for classes. Such obligations to the district must be cleared before a student is permitted to register. Outstanding obligations will prevent registration and the ability to obtain verifications of enrollment, grades, academic transcripts, and degrees.

“PAY 2 STAY”
Students who do not have a zero balance at the end of a day, within 10 days of registering for any class(es), will be dropped for non-payment of fees. Students must have a zero balance at the end of the day in which they add any class(es) to ensure they are not dropped for non-payment. Students, who have a current active BOG fee waiver before registering, will not be dropped. Student accounts may become frozen and registration will be blocked if payment is not made.

The college will not drop students from full term classes after the semester begins. Students that register for full term classes within 10 days of the start of the semester will be responsible for either paying their fees or dropping their classes. Students that use add cards to enroll in classes are responsible for either paying their fees or dropping their classes.

OPEN REGISTRATION
Start dates for open registration vary prior to the start of semester. It will be permitted on a first-come, first-served basis. Students will be able to register for classes that are still open, provided prerequisites have been met. Students may add open classes during the first week of the semester online or by attending the class and discussing add possibilities with the instructor. If seats are available and the student has met the prerequisites (if required), the instructor may give the student an access code. Adds must be processed by the add deadlines.

WAITLISTS
When available class seats are filled, a class is closed to further enrollment. However, students may (at the time of registration) place their name on a waitlist. Students may add their name on only one waitlist in a particular subject and only if they are not already enrolled in the same class (i.e. one English 101 class, one Math 90 class, etc.) Being on a waitlist does not mean that the student is enrolled in the class.

During registration, students who are on a waitlist are notified via their college e-mail when a vacated spot in the class occurs. Once students receive their e-mail notification, they will have five days to register for the class. Students who do not register within 5 days will be dropped from the waitlist. Directions to register for the open spot are provided in the e-mail notification.

When classes begin, the students who are still on a waitlist must attend the first class session and talk with the instructor. If a seat is available in the class, the instructor will give the student an access code according to waitlist order. Instructors will add only students who meet eligibility requirements for the class. To officially enroll in the class, the student must add the class using PiratesNet or providing the access code to the Enrollment Services Office on either campus. Be sure to drop yourself from the waitlist prior to adding the class.

Instructors will advise students regarding their chances of being added to the class and whether or not waitlist students should return to subsequent class meetings.
Students who have placed themselves on an online class waitlist should submit an Electronic Add-Card Request on the first day of term. If the instructor allows the student to add the class, he/she will email the student, providing instructions as to how to add the class online.

**LIMITATIONS ON ENROLLMENT**

Some courses must restrict who may enroll in the course. Limitations on enrollment advise if or how students can qualify for a particular course or program. These limitations can apply to courses that include public performance or intercollegiate competition where a try-out or audition is necessary. Additionally, some courses require formal admission to a particular program in order to enroll (e.g., Associate Degree Nursing Program, Respiratory Therapy Program). Limitations on enrollment are enforced by the instructor. A student will be blocked from enrolling if the student does not meet the stated limitation (see below for the procedure to challenge prerequisites).

**PREREQUISITES AND REGISTRATION**

Modesto Junior College requires satisfactory completion of all prerequisite courses prior to the student enrolling in the subsequent course, except that a student may enroll in the next level pending the outcome of the prerequisite course if the student is currently enrolled in the course at MJC. “Satisfactory completion” means a grade of A, B, C, or CR/P (pass). Grades of D, F, or NC/NP indicate that the student did not satisfactorily complete the course, and therefore, cannot use the course to fulfill the prerequisite.

**CHALLENGING PREREQUISITES/COREQUISITES**

Any student may challenge a prerequisite/corequisites on the grounds that:

- It was not established in accordance with the District’s policy
- It is in violation of Title 5
- It is discriminatory
- A student feels that they can succeed even though they have not completed the prerequisite/corequisites (It is the student’s responsibility to provide additional documentation that demonstrates they have satisfied the prerequisite/corequisites).
- Student will be subject to undue delay because the prerequisite/corequisites has not been made reasonably available

To challenge a prerequisite/corequisites in any area, the student must begin in the division office that offers the prerequisite/corequisites by completing the Prerequisite/Corequisites Challenge Form at least five days before registration. The student must state the grounds for the challenge and present additional information that supports the challenge. A committee will review each challenge and inform the student within five days of the filing of the petition.

**MJC EMAIL ACCOUNTS**

MJC only uses the college issued student email to communicate with students by sending correspondence through a district-provided student email system. New students are advised to set up their email accounts as soon as they are admitted to the college and check it often. Information sent to students by the college will often be time-sensitive.

Students may access email using PiratesNet. Students are advised to set up their district email account the day after they are admitted to MJC. Student email accounts are 5 gigabytes in size with a 10 megabyte attachment limit. Students may use this account to easily send and receive messages, manage calendars, and track contacts. This email account is web-based and can be accessed from any computer with an Internet connection. Most offices on campus have eliminated U.S. mail service and use PiratesLink exclusively to communicate with students.

It is the student’s responsibility to activate a PiratesLink connection now. For more information, point your browser to [http://mail.student.yosemite.edu/](http://mail.student.yosemite.edu/)
REPEATING COURSES
The Board of Trustees of the Yosemite Community College District has adopted a policy which permits a student to repeat certain courses. In these cases, a course is designated as repeatable in the college catalog, and a student may take the course and then repeat it the allowed number of times and earn college credit for each completion. These courses have been approved by the Curriculum Committee as repeatable. Courses without that designation may not be repeated. Repeatable courses may not be repeated to improve a substandard grade.

COURSE REPETITION FOR GRADE IMPROVEMENT
Per Title 5, Section 55042 and the YCCD District Procedure on Repetitions, a student who has earned a grade of D, F, NC, or NP in a non-repeatable course taken in the Yosemite Community College District may repeat the course once for the purpose of grade improvement. This allows a student a maximum of two attempts to successfully complete the course. A “W” counts as the one attempt to improve the grade. The most recent completion (grade, grade points, and units) will replace the earlier course, even if the more recent completion results in a lower grade.

A student who fails a non-repeatable course two times must discuss enrollment possibilities with a counselor. Should a student be approved to enroll a third time, the counselor may require/recommend that student limit total units, participate in tutoring, or enroll in Supplemental Instruction classes. The third completion will replace the second completion, even if the third completion results in a lower grade.

Students may be approved to repeat a class after three attempts only if a documentable extenuating circumstance exists relating to the third enrollment. Examples of extenuating circumstances are accidents, serious illness, death in the family, evidence of caretaking responsibilities, or a verified disability. Documentation is required to support circumstances that relate specifically to the dates of the last attempt. Students will be allowed to enroll in the class on a seats available basis only. The units, grade, grade points that may result from this enrollment will not be used to replace the previous substandard completion. The petition to repeat due to an extenuating circumstance must be submitted within 30 days of the end of the term when the course was completed.

MULTIPLE AND OVERLAPPING ENROLLMENTS
MJC does not allow a student to enroll in two or more sections of the same credit courses at the same time.

MJC does not allow a student to enroll in two courses that overlap (time-wise) unless the following requirements are met:

- The student must provide sound justification for the overlap, other than mere scheduling convenience.
- An appropriate college official must review the justification and approve the enrollment.
- The instructor of record allowing the overlap must collect documentation each week that shows how the student made up the time caused by the overlap.

COURSE REPETITION WHEN THE STUDENT HAS EARNED A PASSING GRADE
Courses which have been completed with a passing grade may be repeated for the purpose of improving the grade or proficiency only in the following cases:

- If student has enrolled the maximum number of times allowed in an activity class, he/she may enroll one additional time, after a lapse of time of five years or more. The grade and grade points will replace the fourth enrollment, even if the grade is lower.
- Students may enroll in legally mandated training classes any number of times if the training requirements are mandated as a condition of paid or volunteer employment. The grade received each time shall be included for purposes of calculating the student's grade point average. Legally mandated is interpreted to mean “required by statute or regulation.” Written verification from the employer is required.
Student needs class completion within a specific time period to meet a recency prerequisite at MJC or at another institution where he/she intends to transfer.

Student petitions that the grade (although satisfactory) was the result of an extenuating circumstance. An extenuating circumstance reason will only be accepted two times as a reason for repeat, whether the grade was satisfactory or unsatisfactory. The petition must be submitted to the college within 30 days from the end of the semester.

**ATTENDANCE**

Attendance is important. Students are expected to attend the first class meeting of each class in which they register. Instructors may drop students who do not attend the first class meeting and give the seat to a student from the waitlist. All students enrolled at Modesto Junior College are expected to be punctual and attend classes regularly. Regular attendance in class and lab sessions is an obligation assumed by every student at the time of registration. Instructors are encouraged to announce to their students at the beginning of the semester their policies regarding excessive absences or tardiness.

Many instructors link their class syllabi to their directory information on PiratesNet. It is the student’s responsibility to discuss with the instructor any anticipated and/or extensive absences. Tardiness may be considered an absence. No absence relieves the student of the responsibility to complete all work assigned. When an instructor determines that a student’s absences are excessive, the instructor may drop the student from the class. However, it is the responsibility of the student to complete the course or to officially withdraw from the class.

**WITHDRAWING FROM COURSES**

Students are responsible for officially dropping classes. Withdrawals may be processed using PiratesNet (www.mjc.edu) or in the Enrollment Services Office by completing a Drop Form. Each student’s printed schedule (available on PiratesNet) includes course drop deadlines.

- If a student drops a full-term course within the first two weeks or at the census point, whichever comes first, no notation will be recorded on the student’s permanent record.
- If a student drops a full-term class between the end of the second week or the census point and 14th week whichever comes first (or by 75% of the class, whichever is less) a notation of "W" will be recorded.

Withdrawal after the end of the 14th week or 75% of the term, whichever is less AND prior to the end of the semester, may be authorized when the college has approved such withdrawal because of a verified extenuating circumstance.

For short-term class deadlines, students should refer to their class schedule. A student is responsible to pay all fees according to written regulations.

Students who do not have a zero balance at the end of a day, within 10 days of registering for any class(es), will be dropped for Non-Payment of Fees. Students must have a zero balance at the end of the day in which they add any class(es) to ensure they are not dropped for non-payment. Students who are a California resident and have a current active BOG fee waiver before registering, will not be affected.

A student who enrolls in a course and fails to pay fees is responsible for all outstanding debts to the college. Future services and registration will be denied until full payment has been made.

Once the deadline to withdraw from class(es) has passed (the 14th week of the term or 75% of the class’ duration, whichever is less) neither a student nor an instructor may request a withdrawal. However, a student may petition to withdraw after the deadline AND before the end of the term, based upon documentable extenuating circumstances*, such as illness or hospitalization. Petition Forms are available in the Enrollment Services Office.

*A verified extenuating circumstance requires written documentation of illness, death in the family, evidence of caretaking responsibilities, or verifiable disability.
WITHDRAWAL LIMIT
Effective Summer 2012, students are limited to receiving no more than two substandard grades from any course taken within the Yosemite Community College District. Since this state regulation includes courses taken at Columbia and/or Modesto, substandard grades earned in courses that have been determined to be equivalent to each other (see ‘Intradistrict Course Equivalencies Between Modesto Junior College and Columbia College” on page 121) count toward the second limitation. A “W” counts as an enrollment attempt and results in a substandard grade.

Students who have been blocked from enrollment in a course because they have reached the limit of two substandard grades should discuss options with a counselor.

MILITARY WITHDRAWAL
A student who withdraws from a course because he/she is an active or reserve member in the military service who has received military orders compelling withdrawal from course(s) shall receive no notation or an “MW” notation which shall not be counted for the permitted number of withdrawals or for progress probation or dismissal. The student must complete a student petition and present military orders to the Enrollment Services Office for proper notation.

WITHDRAWAL DUE TO EXTRAORDINARY CIRCUMSTANCES
Section 58509: Authority of Chancellor to Waive Provisions to Accommodate Students Impacted by Extraordinary Conditions
MJC will provide a full refund of enrollment fees to any student who withdrew from one or more classes, where the withdrawal was necessary for one of the following reasons:

- The college attended by the student was closed or the college was unable to provide all or substantially all of the instruction in the course in which the student was enrolled due to fire, flood or other conditions qualifying for adjustment of apportionment pursuant to section 58146; or

Although the college attended by the student may not qualify for an apportionment adjustment pursuant to section 58146, one of the conditions enumerated in that section content

- Fire, flood, epidemic, or order of any military officer of the United States, or other extraordinary conditions made it difficult or impossible for the student to attend one or more courses because the student was actively engaged in responding to fire, flood or other condition or because such condition required the student to evacuate his or her home.

A “W” will not be recorded on the academic record of the student who withdraws from one or more courses due to the circumstances described above.
**ENROLLMENT STATUS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuing Student</td>
<td>has enrolled in one or more classes within the past year.</td>
</tr>
<tr>
<td></td>
<td>Registration: Continuing students are automatically assigned registration dates and times each semester. To maintain catalog rights, continuous enrollment is defined as earning college credit for enrollment in at least one term (Summer, Fall, Spring) of the school year.</td>
</tr>
<tr>
<td>Returning Student</td>
<td>has not enrolled in an MJC class within the past year and has reapplied to MJC. Catalog rights begin with the first enrollment and continue as long as the student enrolls and earns college credit in at least one term of the school year.</td>
</tr>
</tbody>
</table>

**UNDERGRADUATE STATUS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>Fewer than 30 units completed.</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30 or more units completed.</td>
</tr>
</tbody>
</table>

**PART-TIME/FULL-TIME ENROLLMENT STATUS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time</td>
<td>Must be registered in 12 or more units. 18 units is considered the maximum. To enroll in more than 18 units during the spring and fall term, or more than 12 units during the summer term, approval must be obtained from the Counseling Center.</td>
</tr>
<tr>
<td>Part-Time</td>
<td>Registered in fewer than 12 units.</td>
</tr>
</tbody>
</table>

**UNIT REQUIREMENTS FOR SPECIAL POPULATIONS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veterans: Chapter 31</td>
<td>As required by Veterans Administration</td>
</tr>
<tr>
<td>Veterans: Chapters 30, 35, 1606, 1607</td>
<td>Minimum 3 units required for assistance.</td>
</tr>
<tr>
<td>Veterans: Chapter 33</td>
<td>Minimum 7 units required</td>
</tr>
<tr>
<td>International Students</td>
<td>Minimum 12 units required to participate</td>
</tr>
<tr>
<td>Student Body Officers</td>
<td>Minimum 9 units required, in addition to a 2.3 GPA.</td>
</tr>
<tr>
<td>Varsity Athletes</td>
<td>Minimum of 12 units during the season of sport. Students dropping below 12 units are not eligible for competition until they are once again actively enrolled and attending class in at least 12 units. Of the 12 units, at least 9 shall be attempted in courses counting toward remediation, career technical education/ certificate courses, associate degree requirements, transfer/ general education, and/or lower division theoretical major preparation courses as defined by the college catalog and/or articulation agreements and be consistent with the student athlete’s educational plan. To be eligible and remain eligible in intercollegiate athletics competition a student athlete has to successfully complete at least 6 units during the preceding academic term in which the student is enrolled as a full-time student with a cumulative 2.0 GPA beginning with and including the units taken during the first semester of competition. To be eligible for the second season of that sport, a minimum of 24 units must be successfully completed. The 24 unit count begins with and includes the units taken during the first semester of competition for that sport and must be successfully completed prior to the beginning of the semester of the second season of sport. In order to be eligible for competition, the student athlete must have a comprehensive individual educational plan on file, by the following dates: October 15 for those student athletes whose first competition, in any sport, occurs during the fall academic term; March 1 for those student athletes whose first competition, in any sport, occurs during the spring academic term.</td>
</tr>
</tbody>
</table>
Student Fees and Expenses

MJC Business Services
East Campus, Student Services Building, Phone: (209) 575-6829

The Business Services Office is located in the Student Services Building on the East Campus off College Avenue. The office provides students with the following services: payment for registration fees, enrollment verification, field trips, bus passes for MAX and START, and credit by exam tests. The office provides current semester benefits stickers for student ID cards, accepts waiver forms for the student representative and benefits fees and provides change. Scholarship checks and Short Term Loans may also be picked up at this office. Students may pay fees online at PiratesNet with a credit card or in person with cash, check, or credit card.

REFUND POLICY

Classes must be dropped at the Admissions Office or online at [www.mjc.edu](http://www.mjc.edu) on or before published deadline dates prior to requesting a refund.

The parking fee is not refundable.

1. Drop Deadlines to be eligible for a refund - Class(es) must be dropped during the first two weeks of the term, except for short-term classes. Short-term classes must be dropped by the 10% point of the length of a class with the exception of those classes that have either five or fewer meeting days or meet 20 or fewer hours. In these cases, the last refund date is defined as the day before the first class meeting. If the last day in any of these periods falls on a weekend or holiday, the final drop date is the preceding college business day.

2. Refund Request Form - Refund Request Forms are available exclusively online at [www.mjc.edu/forms](http://www.mjc.edu/forms).

3. In accordance with the California Code of Regulations, Section 58508, refunds with an enrollment credit of at least $10 will be assessed a $10 administrative processing fee.

4. Classes canceled by the College - Refunds are made for classes canceled by the college, but refunds ARE NOT AUTOMATIC. The student must submit a completed Refund Request Form to the Business Office.

Eligible refunds are processed approximately four (4) to six (6) weeks from the filing date. If fees or tuition were paid by check, the refund is not made until the check has cleared the bank.

**Outstanding Credit** - Credit for which a refund has not been filed as specified in (2) above will not be refunded. Continuing students with an outstanding credit can carry this credit for two academic years, where such credit is then applied against fees and charges. ANY CREDITS REMAINING AT THE END OF TWO ACADEMIC YEARS, HOWEVER, ARE FORFEITTED.

**DENIAL OF SERVICES AND DEBTS OWED TO THE COLLEGE**

Students who have debts to the college or "HOLDS" for administrative reasons on their student records may find that services are withheld until the debt is paid or the hold is removed.

Services that will be withheld because of debts to the college or holds include: counseling/advising services, registration, release of diplomas and certificates, release of transcripts, enrollment verifications, and release of grades.
Debts occur when a student fails to repay money borrowed from the college, violates a student financial aid contract, fails to pay tuition and/or registration fees, fails to reimburse the college for an “insufficient funds” check or for a disapproved credit card transaction, fails to return or account for athletic uniforms and equipment, or fails to pay scheduled fees for other services provided by the college.

Modesto Junior College reserves the right to withhold all further services until the debt is paid. Grades and transcripts will be withheld until all obligations are cleared.

COMMUNITY EDUCATION REFUNDS

A full (100%) refund will be given for classes, trips, tours and other activities which are full at the time registration is received or those that the college finds necessary to cancel. Refund requests for classes/seminars must be received by the Community Education Office at least seven (7) working days prior to the first meeting. For trips/tours, refund advance notice must be given within the following guidelines:

<table>
<thead>
<tr>
<th>TYPE OF TRIP/TOUR</th>
<th>ADVANCED NOTICE REQUIRED FOR REFUND</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-day excursion</td>
<td>7 days</td>
</tr>
<tr>
<td>Pre-purchased tickets included</td>
<td>30 days</td>
</tr>
<tr>
<td>Overnight accommodations included</td>
<td>45 days</td>
</tr>
</tbody>
</table>

No refunds are issued after a class, seminar, trip, or tour has started. All student-requested refunds are subject to a $20 processing fee.
## Student Fees* 2017-2018

<table>
<thead>
<tr>
<th>FEE</th>
<th>AMOUNT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment Fee</td>
<td>$46 (per unit)</td>
<td>California residents must pay an enrollment fee of $46 per unit per semester (subject to change by the California State Legislature). Enrollment fees can be waived for students who qualify for the Board of Governors Fee Waiver Program and for those who enroll in apprenticeship courses only. Dependents of service-connected disabled or service-connected deceased veterans may be eligible for a waiver of fees. Please contact the campus Veterans Office in the Student Services Building, Room 116 for assistance. For fee waiver information students should contact the Student Financial Services Office in Yosemite Hall. Special part-time students are students who are concurrently enrolled in K-12th grade and who enroll in fewer than 12 units at a community college. They are exempt from paying the enrollment fee. To be eligible to enroll in courses, special part-time students must be prepared to undertake college-level work and must be approved by the student’s high school principal and parent or legal guardian. At MJC, special part-time students must be at least 14 years of age. Special part-time students may enroll in a maximum of 71 units per semester.</td>
</tr>
<tr>
<td>Non-Resident Tuition</td>
<td>$234 (per unit)</td>
<td>A U.S. citizen who is not a legal resident of California and all others who are classified as non-residents are required to pay a non-resident tuition fee of $234 per unit per semester. The international student tuition fee is $234 per unit per semester. The tuition fee is in addition to the Enrollment Fee and all other required fees.</td>
</tr>
<tr>
<td>Health Fee</td>
<td>$18</td>
<td>A $18 Health Fee must be paid each semester ($15 Summer) by students who enroll in a credit course that is longer than 16 hours, held on-campus or off-campus within the district, or those enrolled in non-credit courses held on campus, or those enrolled in on campus contract education courses. The Health Fee may be waived for students who are indigent apprentices enrolled in apprenticeship classes only, or for those who depend exclusively on prayer for healing, with approval of the Vice President of Student Services. Per Education Code Section 76335, fee subject to change by $1 based on the Implicit Price Index for State and Local Government Agencies.</td>
</tr>
<tr>
<td>Student Center Fee</td>
<td>$1</td>
<td>Students voted in Spring 2000 to assess a Student Center fee of $1 per unit to a maximum of $10 per fiscal year, to establish an annual building/operating fund for the Mary Stuart Rogers Student Learning Center on the West Campus.</td>
</tr>
<tr>
<td>Student Representation Fee</td>
<td>$1</td>
<td>A $1 fee established by two-thirds vote of the student body. Money collected will be used by ASMC to represent student concerns at local, state, and federal government levels. Students may refuse to pay the fee for religious, political, financial, or moral reasons. A refusal to pay the fee must be submitted in writing to the Business Services Office.</td>
</tr>
<tr>
<td>Student Activity Fee</td>
<td>$5</td>
<td>Student Activity Fee funds student government (ASMJC) activities for students. See “Student Activity Sticker” on page 85 for more information. This fee allows you access to ASMC events and services. The optional $5 fee is automatically assessed. You may refuse the fee by completing the Student Activity Fee Waiver form available in the Business Services Office, or PiratesNet under online form. However, refusing the fee makes you ineligible for ASMC activities and services.</td>
</tr>
<tr>
<td>Parking Fee</td>
<td>(Varies)</td>
<td>Student parking permits are available for $30 a semester (summer term is $15) or $2 per day. Motorcycle fee is $7.50 per semester. The parking fee is not required for disabled students with a disabled DMV placard. Students can purchase Parking Permits by visiting the website at <a href="http://www.mycampuspermit.com">http://www.mycampuspermit.com</a>. Students who purchase an auto permit for the same semester must provide proof of a motorcycle license are eligible for a discounted motorcycle permit for the same semester. Parking fees are subject to change.</td>
</tr>
<tr>
<td>Debts To The College</td>
<td>(Varies)</td>
<td>Any individual who has incurred, but not paid, a debt to the college may be denied grades, transcripts, degrees, some services, and registration privileges.</td>
</tr>
<tr>
<td>Materials Fees</td>
<td>(Varies)</td>
<td>This serves as payment for required instructional and other materials which are of continuing value to the student outside of the classroom setting and which the student must purchase as a condition of registration, enrollment, or entry into a class, or any material which is necessary to achieve the required objectives of a course.</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>$200 - $600</td>
<td>Textbooks, stationery, and supplies will amount to approximately $200 to $600 per semester.</td>
</tr>
<tr>
<td>Transcript Verification</td>
<td>(Varies)</td>
<td>The first two transcripts are provided free. A transcript fee is charged after the first two, payable at the time of the request. Fees vary depending on time of requested delivery.</td>
</tr>
<tr>
<td>Enrollment Verification</td>
<td>(See note)</td>
<td>The first two verifications are provided free. A fee of $7 per verification is charged after the first two, payable at the time of the request. A $15 fee is charged for next day service and a $20 fee is charged for same-day service. No charge is made for loan deferral or financial aid GPA verifications. See “Enrollment and Grade Verification” on page 71 for more information.</td>
</tr>
<tr>
<td>Course Audit Fee</td>
<td>$15 (per unit)</td>
<td>A fee of $15 per unit is required of students who have met the repetitions limit for credit courses, payable at the MJC Business Services Offices. Students enrolled in 10 or more units at the time audit enrollment occurs will not be assessed the fee for up to 3 units.</td>
</tr>
<tr>
<td>Other Fees</td>
<td>(Varies)</td>
<td>Fines for overdue library books or other equipment and parking fines are among special charges authorized by the Board of Trustees.</td>
</tr>
<tr>
<td>Degree Verifications</td>
<td>(Varies)</td>
<td>MJC has authorized the National Student Clearing house to provide degree verifications. Please visit <a href="http://www.degreeverify.org">www.degreeverify.org</a> for pricing and more information.</td>
</tr>
<tr>
<td>Field Trip Fees</td>
<td>(Varies)</td>
<td>Appropriate fees will be charged for those field trips scheduled to destinations outside California and for some long distance field trips outside the Yosemite Community College District.</td>
</tr>
</tbody>
</table>

* Fees are subject to change through State Legislation and Governing Board implementation as judged to be in the best interest of the California Community Colleges and the students at Modesto Junior College.
Modesto Junior College administers a comprehensive student financial aid program designed to assist students in meeting college costs. The amount of financial aid awarded varies from student to student, depending on the individual's need and resources. Funds are awarded on a first-come, first-served basis.

Financial aid awards are based on calculated financial need as determined by the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application (CADAA). Students may complete the FAFSA at www.fafsa.gov or the CADAA at dream.csac.ca.gov.

Application assistance is available in the Student Financial Services Office in Yosemite Hall on West Campus or in the Enrollment Services Office in the Student Services Building on East Campus.

All applications for financial assistance programs; i.e., work compensation, nursing loans, grants, scholarships, special funds, subsidies, prizes, etc., will be considered by Modesto Junior College without regard to race, color, national origin, gender or disability.

**DETERMINING ELIGIBILITY FOR FEDERAL AID**

To be eligible for federal aid, students must:

- be a U.S. citizen or eligible non-citizen
- be registered with the Selective Service, if applicable
- be enrolled in an eligible program leading to a certificate, degree, or transfer program at MJC
- have a high school diploma or equivalent
- have "financial need" as determined through the application process
- not owe a refund on a Federal grant or be in default on a Federal education loan
- meet Satisfactory Academic Progress (SAP) standards

**ELIGIBLE PROGRAMS/COURSES**

Students must be enrolled in an approved course of study leading to degree, eligible certificate, or transfer to a four-year institution.

There is no appeal process. Federal regulations do not allow a college to make any exceptions to the Return of Title IV requirements. Students who do not repay the funds owed are disqualified from eligibility for federal student aid at any college or university.

Students considering dropping classes should first consult with the Student Financial Services Office to understand the implications of a complete withdrawal.

**FEDERAL PELL GRANT – PELL GRANT**

The Federal Pell Grant provide assistance to eligible students to help meet college expenses. Students must file a FAFSA to have financial need determined by a formula that is applied uniformly to all applicants throughout the nation. The Student Financial Services Office calculates the actual award amount based on the information provided on the FAFSA, whether the student is enrolled full-time or part-time and the cost of education.
LIFETIME ELIGIBILITY USED - PELL LEU
Students are limited to 6 years (12 FT semesters) full-time Pell grant, or 600% Lifetime Eligibility Used (Pell LEU). Students may view their Pell LEU at http://www.nslds.ed.gov/nslds_SA

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)
The FSEOG is designed to assist students with exceptional financial need by supplementing other financial aid sources.

FEDERAL WORK-STUDY PROGRAM (FWS) LIMITED FUNDING
Federal Work Study provides part-time employment for students who demonstrate financial need. The Student Financial Services Office will assist in placing students in jobs on campus. Students must not work until an official agreement is on file with the Student Financial Services Office and may not work more than 20 hours per week. Current pay is $10.50 per hour (federal minimum wage). Work-study hourly wages are paid directly to the student to help with educational expenses.

NURSING STUDENT LOANS
Nursing Student Loans may be available to students enrolled in the Associate’s degree Nursing Program who demonstrate financial need. Loans range from $1,000 to $2,000 per academic year.

NOTE: MJC does not participate in any Direct Loan or Federal Family Loan Program.

STATE FINANCIAL AID PROGRAMS

BOARD OF GOVERNOR’S FEE WAIVER PROGRAM (BOGW)
The BOGW waives the enrollment fee for eligible students. The BOGW is effective for an entire academic year (Summer/Fall/Spring). There is no minimum unit requirement. Students may apply by filling out the fee waiver application, FAFSA or CADAA application. BOG Fee Waiver - regulations Students will lose eligibility for the Board of Governors Fee Waiver, beginning Fall 2016, if they do not maintain a 2.0 GPA for two consecutive primary terms or do not successfully complete half (50%) of the units attempted in that period. The first calculation of a term began in Fall 2015. Students who are disqualified may submit an appeal for possible reinstatement.

BUREAU OF INDIAN AFFAIRS GRANTS (BIA)
Bureau of Indian Affairs Grants are provided to help eligible Native American students. Contact your Tribal Agency or the Student Financial Services Office for more information. State Financial Aid Programs.

CAL GRANTS
Cal Grants are state-funded grants, which are awarded to eligible students to help meet college expenses. Students must file a FAFSA or CADAA application and have their GPA submitted to the California Student Aid Commission (CSAC). The application filing deadline is March 2nd preceding the award year. A second deadline of September 2nd is available for students on a competitive basis who are planning to attend a community college during the award year.

Cal Grant A assists with tuition and fees for California residents at qualifying institutions offering baccalaureate degree programs. Awards may be held in reserve while attending a community college. There are two types of Cal Grant A awards – Entitlement and Competitive. Every current high school seniors and or previous year high school graduates who has at least a 3.0 GPA, meets the financial and academic requirements and applies on time (March 2nd deadline) will receive a Cal Grant A Entitlement Award. Other eligible students who have at least a 3.0 GPA may apply for a Cal Grant A Competitive Award. Selections are based on a composite score that considers family income, parents’ educational level, GPA, time out of high school, single-family household, and former foster youth.
**Cal Grant B** provides a living allowance and tuition and fee assistance for low-income students. Beginning with the sophomore year, this award also helps pay tuition and fees at a qualifying institution offering baccalaureate degree programs. There are two types of **Cal Grant B** awards – Entitlement and Competitive. Current high school seniors and previous year high school graduates with at least a 2.0 GPA who meet the financial and eligibility requirements and apply on time (March 2nd deadline) will receive a **Cal Grant B Entitlement Award**. Other eligible students with at least a 2.0 GPA may apply for a **Cal Grant B Competitive Award**. Selection is based on a composite score based on family income, parents’ educational level, GPA, time out of high school, single-parent household and former foster youth.

**Cal Grant C** provides assistance with costs for occupational and vocational programs. Selections are based on financial need, vocational aptitude and enrollment in an eligible program at a California community or independent college or vocational school that is at least four months long. Additional information may be obtained in the MJC Student Financial Services Office.

**FULL-TIME STUDENT SUCCESS GRANT — (FTSSG)**

Students who are eligible for a Cal Grant B or C and who are enrolled in full-time (12 units) or more for a semester qualify for the FTSSG. Funding for the FTSSG is $300 each term.

**CALIFORNIA CHAFEE GRANT**

The Chafee Grant Program awards grants of up to $5,000 annually to foster youth and former foster youth to use for college or career and technical training. To be eligible the applicant must have been in foster care between their 16th-18th birthdays and be no more than 22 years old. The applicant must also file a FAFSA, available at www.fafsa.gov or a California Dream Act application available at https://dream.csac.ca.gov as well as the California Chafee Grant Program Application, available at www.csac.ca.gov. Recipients must be enrolled at least half-time, and meeting Satisfactory Academic Progress (SAP) requirements.

**CALIFORNIA DREAM ACT**

Students who meet AB540 criteria may now apply for state-funded financial aid such as community college fee waivers (BOGW), Cal Grants, Chafee Grants, and institutional financial assistance by completing the California Dream Act Application at https://dream.sac.ca.gov.

**FUNDING LIMITATIONS**

Funding from financial aid resources at Modesto Junior College is limited to the completion of a college degree or exceeding the maximum time frame.

**MAXIMUM TIME FRAME**: All financial aid students are expected to complete their program of study within 150% of the published length of the program.

- Students pursuing a 60-unit AA/AS degree, 4-year transfer, or vocational programs are expected to complete their programs by the time they attempt 90 units.
- Students whose educational goal is to earn a Certificate of Achievement are expected to complete their program by the time they attempt 45 units.

Students exceeding these limits may file an appeal if extenuating circumstances have prevented them from completing their program within these limitations. Standards for Satisfactory Academic Progress Financial aid recipients must adhere to satisfactory academic progress standards — maintain a minimum 2.0 cumulative GPA and complete at least 67% of all attempted units. The student's satisfactory academic progress will be reviewed upon the student's initial application for financial aid and at the end of each semester.
WITHDRAWALS, INCOMPLETES, AND/OR UNITS NOT COUNTED

Grades of F, NP, IP, I and RD are not counted as satisfactory academic progress and will not be counted toward total units completed. Bridged classes or open-entry/open-exit classes (IP) will be counted as eligible units for financial aid only during the first semester the class is attempted.

WARNING/DISQUALIFICATION STATUS

Students who have not met all satisfactory academic progress standards will be placed on Financial Aid Warning and will be notified to attend a financial aid warning workshop. Failure to do so could result in loss of financial aid.

Students who have not met all satisfactory academic progress standards at the end of the warning period will be placed on Financial Aid Disqualification. This status will remain in effect until all requirements for satisfactory academic progress are achieved. Under no circumstances will students be paid retroactively for any ineligible semesters.

APPEALS

The Appeal Form is available on the website during application periods, at www.mjc.edu/financialaid and must be filed if such a review is desired. Under certain conditions, students placed on Disqualification may file an appeal for consideration of reinstatement of financial aid eligibility. Circumstances must have occurred during the deficient semester(s). The appeal and acceptance dates are available on the website, at www.mjc.edu/financialaid

The following are examples of reasons a student may file an appeal:

- Change in academic major
- Documented serious injury, illness or medical condition requiring a doctor’s care
- Death of an immediate family member (documentation required)
- Documented extenuating circumstance beyond student’s control

The following are NOT considered extenuating circumstances beyond a student’s control:

- Personal problems not requiring professional intervention
- Poor time management
- Unaware of academic progress policies or other college requirements
- Not following placement test and/or Academic Counselor’s recommendations
- Transportation problems
- Child care problems

To file an appeal, students are required to submit a complete appeal packet which includes:

1. An appeal form and Satisfactory Academic Progress Quiz
2. Current Student Educational Plan OR Degree Audit (available on Pirates Net)
3. Supporting documentation for allowable special circumstance
4. Contract

The appeal documents are forwarded to the Director of Student Financial Services for review. Students are notified of the decision by email.

Denied Appeals:

Student whose appeal is denied have the option to have their appeal reviewed by the appeals committee. Decisions made by the committee are final. For additional information visit our website at: http://www.mjc.edu/studentservices/finaid/appeal.php
RETURN OF TITLE IV FUNDS

Per federal regulations, any student who receives financial aid and then withdraws from all classes prior to completing 60% of the semester/program and/or course will be required to repay a portion of any unearned federal financial aid. If the student has received more than earned, notification will be sent as to the amount of aid to be returned, the due date, and the process. If the student has not yet received the full amount earned, notification will be sent regarding a post-withdrawal disbursement the student may receive, the response date, and the process. Federal regulations only allow students to receive financial aid for classes they actually attend. Students who receive financial aid for classes they drop before the first day of class or that they otherwise never attended must return those funds.

There is no appeal process. Federal regulations do not allow a college to make any exceptions to the Return of Title IV requirements. Students who do not repay the funds owed are disqualified from eligibility for federal student aid at any college or university.

Students considering dropping classes should first consult with the Student Financial Services Office to understand the implications of a complete withdrawal.

SCHOLARSHIPS

The Modesto Junior College Scholarship Program offers over 200 scholarships annually to eligible students who enroll full time during the Fall semester. Awards range from $200 to $2,000 per academic year. Students who will be new incoming or continuing can receive up to a maximum of $4000 and transfer students up to $5500. Scholarships are funded by the MJC Foundation, private donors, community agencies and businesses whose focus is to encourage and support the educational goals of the students we serve.

To receive consideration for scholarships, students must have completed 12 units with a cumulative grade point average of 2.5 or higher and be actively enrolled as a full-time student the following Fall semester. (Students accepted and enrolled in the MJC Nursing Program will be considered full time for scholarship purposes only.) High school seniors are exempt from the 12-unit completion, but must submit their high school transcript.

Scholarship selections are made based upon proven academic performance and strength of major, motivation, potential for success and may include the following: major, residency, organizational affiliation and active community service.

The MJC Scholarship Application and Recommendation Form will be available on the MJC Financial Aid link (on line) at www.mjc.edu the first Monday in October and will be due the last Friday of finals week during the Fall Semester.

For questions or more information regarding the MJC Scholarship Program, contact Melissa Clark in the Scholarship Office at (209) 575-7715 or email clarkme@mjc.edu.
Grading and Credit Policies

Enrollment Services (Records)
Francisco Bañuelos
Dean of Enrollment Services, Special Programs & Student Learning
Student Services Building, Room 102
Phone: (209) 575-6853
Website: mjc.edu/studentservices/enrollment/records

MJC’s Grading System
Grades are assigned by instructors based on classwork and tests. Grades are assigned as follows:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>GRADE POINTS EARNED</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>Less than satisfactory</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>Failing</td>
</tr>
<tr>
<td>P</td>
<td>*</td>
<td>Pass, at least satisfactory (A, B, C)</td>
</tr>
<tr>
<td>NP</td>
<td>*</td>
<td>No Pass, less than satisfactory or failing (D, F)</td>
</tr>
<tr>
<td>IA</td>
<td>*</td>
<td>Incomplete A</td>
</tr>
<tr>
<td>IB</td>
<td>*</td>
<td>Incomplete B</td>
</tr>
<tr>
<td>IC</td>
<td>*</td>
<td>Incomplete C</td>
</tr>
<tr>
<td>ID</td>
<td>*</td>
<td>Incomplete D</td>
</tr>
<tr>
<td>IF</td>
<td>*</td>
<td>Incomplete F</td>
</tr>
<tr>
<td>IP</td>
<td>*</td>
<td>Incomplete Pass (A, B, C)</td>
</tr>
<tr>
<td>INP</td>
<td>*</td>
<td>Incomplete No Pass (D, F)</td>
</tr>
<tr>
<td>W</td>
<td>*</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>MW</td>
<td>*</td>
<td>Military Withdrawal</td>
</tr>
</tbody>
</table>

* Grade points not included in student’s overall grade point average (GPA).

Grade Point Average (GPA)
To graduate and to transfer to other collegiate institutions, the student must have at least a C average (2.0), based on the total grade points earned in college degree applicable courses completed at MJC and other colleges divided by the total number of units attempted. Students planning to transfer to a four-year university should discuss options with a counselor.

A course or unit attempted is any course or unit which, in any semester, appears on the official transcript. Courses with an Incomplete (I grade), a Withdrawal (W grade), Pass (P grade) or No Pass (NP grade) do not count in the grade point average. All other credit courses attempted are included in the average.
**ACADEMIC DISTINCTIONS**

**GOOD STANDING**

A student is in good standing academically when the cumulative MJC grade point average is 2.0, or better, and the student has completed fewer than 50% of the overall units attempted with grades of "W," "I," "NP," and "NC."

**GRADUATION WITH HONORS**

Graduating students achieving a cumulative grade point average of 3.5 or higher in all degree-applicable coursework, including transfer work, will graduate with honors. This honor will be indicated on the transcript and the diploma.

**PRESIDENT’S LIST**

To be eligible for the President’s List (formerly Dean’s List) the student must complete a minimum of 12 degree-applicable units in a semester at MJC and have a grade point average (GPA) of 3.5 or better with no grade lower than a C. The student receives a personal letter of commendation.

**CALCULATING THE GPA**

A 2.0 minimum grade point average (GPA) is required to be in good academic standing and for graduation. To calculate a student’s GPA, follow these steps:

1. *Assign a numerical value to each grade received (A=4; B=3; C=2; D=1; F=0)*
2. *Multiply the grade by the number of units in the class. This totals the grade points.*
3. *Divide the total number of grade points by the total number of units attempted*

Note: Exclude W's, NP's, P's from the calculation as well as courses that were repeated and where academic renewal was granted. These courses will be signified by “R” and “AR” respectively.

**CHALLENGING GRADES**

To conform to the provision of Section 55025 of the California Administrative Code, Title 5, the determination of the student’s grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency.

Modesto Junior College policies on challenging a final grade are as follows:

1. *There shall be a one year time limit for challenging any evaluative or non-evaluative symbol. This limit will begin at the end of the term in which the symbol was assigned.*
2. *The correction of grades given in error shall include expunging the incorrect grade from the record;*
3. *To challenge a grade, students should complete a Grade Correction Petition, which is available in the Enrollment Services Office.*

**INCOMPLETE GRADES**

An Incomplete (I) grade will be given only in cases in which course work could not be completed because of illness or for a cause judged as unavoidable by the instructor. Failure to complete regular course work by the end of the semester will not be reason for giving a grade of Incomplete (I). When a faculty member approves a grade of Incomplete (I), he or she:

- Will enter on PiratesNet an incomplete and the in-lieu grade that will be recorded if the student does not make up the work in the allotted time.
- Will enter on PiratesNet the date on which the incomplete grade will end and the in lieu grade will be awarded.
- Will submit to the Enrollment Services Office a written record (on the Incomplete Form provided) of the conditions for removal of the (I) grade and the grade to be assigned if the work is not completed.
Will send notification via email to the student using the college-issued student email outlining the work to be completed and timeline.

Will write the student's grade when all work has been completed on the Incomplete Form in the Enrollment Services Office at least five business days prior to the expiration date of the incomplete grade.

The amount of time that a student may have to make up the work cannot exceed one year. If the student has not completed the conditions for removal, the Incomplete grade (I) will electronically revert to the “grade in lieu of removal” assigned by the faculty member for the “I” grade.

**Satisfactory Completion**

“Satisfactory completion of” a course means that the student has earned a letter grade of A, B, C, P. All prerequisite courses at MJC must be satisfactorily completed with a C or better grade.

**P/NP (Pass/No Pass) Grades**

A student may enroll in most courses with the option of one of two grading systems: (1) letter grade (A-F) or (2) Pass/No Pass (P/NP). The deadline to file P/NP for a full-term or short-term class is 30% of the class. If 30% falls on a weekend or holiday, the deadline to file P/NP forms in the Enrollment Services Office is the preceding business day. (Forms are available in the Enrollment Services Office or online at mjc.edu/forms, unless the course otherwise states “GR” only or “P/NP” only, all courses are offered with a choice of letter grade or P/NP option. Once the P/NP option is selected by the student and the 30% deadline has passed the choice cannot be rescinded.

Because transfer institutions often do not accept P/NP grades in a student’s major, the college recommends that courses in the major be taken for a letter grade.

Instructors are required to give all students who complete the course a letter grade (A-F), regardless of student choice, unless the course is offered only for P/NP grading.

None of the units attempted under the P/NP grading option are used in computing the student’s grade point average. However, units attempted for which (NP) is recorded are counted in determining progress probation and progress dismissal.

Fourteen units of P/NP may be used toward graduation. An evaluation on a “P/NP” basis may not later be changed to a letter grade, nor may the reverse occur. (Section 55022 Title 5). CAUTION: Some schools may consider “NP” the same as “F”.

**Improvement of Grades**

Beginning in the Summer 2004 term, courses in which substandard grades of “D”, “F”, or “No Pass” were earned by the student, are allowed to be repeated only once. Students will be blocked from registering a third time for the same course if two substandard grades (D, F, or NP) have been recorded in previous grading periods. A student who wishes to enroll in a course for a third time will need to complete a Request for Third Enrollment Form with a counselor. Third enrollment petitions are available in the Counseling Office and must be filed no later than the end of the first week of that term in which the class is to be repeated.

When a course in which a D grade was received is repeated, the student will receive the new grade and grade points earned but will receive no additional units for the course.

When a course in which A, F or NP grade was received is repeated, the student will be given both the units and grade points earned.

Courses in which the student has earned a C or better (including P) may not be repeated for improvement of grade.
ACADEMIC PROBATION AND DISMISSAL
A student shall be placed on academic probation if he or she has attempted a minimum of 12 semester units of work at the college and has earned a cumulative grade point average of less than 2.0 (“C”).

A student who is on academic probation shall be subject to dismissal for one calendar year if the student has earned a cumulative grade point average at the college of less than 2.0 in all units attempted in each of three (3) consecutive semesters.

A student on academic probation shall be removed from probation when the student's accumulated grade point average of courses taken at the college is 2.0 or higher.

PROGRESS PROBATION AND DISMISSAL
A student shall be placed on progress probation if he or she has enrolled in a total of at least 12 semester units at the college and the percentage of all units in which the student has enrolled, for which entries of “W”, “I” and “NP” were recorded reaches or exceeds fifty percent (50%).

A student who is on progress probation shall be subject to dismissal for one calendar year if the cumulative percentage of units in which the student has been enrolled at the college for which entries of “W”, “I”, and “NP” are recorded in at least three (3) consecutive semesters reaches fifty percent (50%) or more.

A student on progress probation shall be removed from probation when the percentage of units taken at the college in the categories of “W”, “I”, and “NP” drops below fifty percent (50%).

HONORS PROGRAM
Eva Mo, Honors Program Coordinator/History Professor
Phone: (209) 575-6105
Hours: By appointment
Email: moe@mjc.edu

ABOUT THE HONORS PROGRAM
If you are a highly motivated or an accomplished student and would like your education at MJC to prepare you to compete well at the highest university levels, then the MJC Honors Program may be for you. This program is meant to further promote excellence by honing the skills and talents of our intellectually gifted, uniquely creative, and academically committed students. Honors students are challenged and guided by honors faculty to delve deeper, think more critically, and argue more persuasively. These students also have the opportunity to meet other gifted students and experience the spirit and encouragement of such a like-mindedly determined cohort.

BENEFITS OF PARTICIPATING
Besides the experience of an enhanced education and being better prepared to compete at the university level, students who graduate from the program will gain any number of perks through enhanced transfer agreements.

HONORS PROGRAM BENEFITS
- Priority admission and registration at transfer institutions
- Scholarships granted by some CSU and UC institutions
- Continuation of the honors experience at the transfer institution
- Invitations to college and university receptions and special events
- Guaranteed housing
- Priority admission into English 101 at MJC for students who meet appropriate Honors Program deadlines
HONORS UNITS
Honors units are units of coursework that you complete in order to demonstrate that you are academically competent in strategically challenging courses. Honors units are not additional units to be completed, but rather overlap your existing educational plan. You will work with a counselor and the Honors Program Coordinator to select appropriate courses.

HONORS CONTRACTS
Many instructors at MJC are willing to give you individual attention by enhancing a course to be at honors level. Once an agreement is established this is referred to as an honors contract. Once you are accepted into the honors program, you will be expected to initiate contracts with instructors. A list of participating instructors is available from the Honors Program Coordinator. Honors contracts may only be established in 3 unit or more courses numbered 100-299 (transferable).

PROOF OF PARTICIPATION HONORS
Honors work completed will be noted on your official MJC transcript.

TO APPLY TO THE PROGRAM:
1. Make an appointment with the Honors Program Coordinator in Founders Hall 120M.
2. To receive an Honors Program Application packet contact Eva Mo at moe@mjc.edu. In this application you will need to demonstrate the following:
   a. Eligibility for English 101 or higher at time of application
   b. 3.25 community college GPA (12 units) or 3.5 credentialed High School GPA
   c. One letter of recommendation (see application)
   d. One ‘statement of purpose’ 500 word-essay (see application)
3. Attend honors orientation before starting your first honors semester.
4. Save the Date: Honors orientation always occurs the Wednesday before fall and spring classes from 10:00 to 12:00 noon.

If you have not recently attended community college or high school, or if you do not meet the entrance requirements, see the Honors Coordinator for alternate requirements.

TO MAINTAIN ENROLLMENT:
1. Complete English 101 by the end of your first honors semester.
2. Maintain a 3.25 or higher cumulative GPA.
3. Attempt at least one honors contract or course per year.

TO COMPLETE THE PROGRAM:
1. Complete 15 units of honors coursework.
2. Maintain a 3.25 cumulative GPA.
3. File an application to graduate from the Honors Program.
ACADEMIC RENEWAL REGULATION

Modesto Junior College regulations permit the removal of coursework completed at MJC which is substandard and not reflective of a student's present scholastic ability and level of performance. The grades will be disregarded in the computation of grade point averages.

Substandard coursework completed at MJC (grades of "D", "F", "NP") may be disregarded from a maximum of two terms under the following conditions:

- A period of at least two years has elapsed since the work to be disregarded was completed.
- The coursework to be disregarded does not include courses previously used to establish eligibility for transfer, graduation, or certificates of achievement.
- The student has completed at MJC or another accredited college, since the coursework to be disregarded was completed, at least 15 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.5 GPA, or 45 semester units with at least a 2.0 GPA.
- The terms need not be consecutive.
- A course repeated for grade improvement is not eligible for academic renewal as the substandard grade has been disregarded in the completion of the grade point average.
- Only the substandard coursework will be considered for academic renewal.
- Up to 24 units of coursework may be eliminated from consideration in the cumulative GPA.
- Academic renewals are irreversible.

Students wishing to use the academic renewal procedure should submit an Application for Academic Renewal. Applications may be emailed or are available at the Enrollment Services Office. When work is disregarded under the conditions above, the permanent academic record shall be annotated in such a manner that all coursework remains legible, ensuring a complete academic history.

UNITS OF CREDIT

Units awarded for a course depend on the number of lecture, lab, and lecture/lab hours in the course. Typically, 17.5 hours of lecture with 35 additional hours of outside work, or 52.5 hours of lab produce one unit of credit. A student's weekly workload for a full-semester course will be roughly three times the number of units of credit to be earned. So a typical 3-unit lecture course requires nine hours per week: 3 hours of lecture and 6 hours of outside work.

RECOMMENDED STUDY LOADS/EXCESSIVE UNITS

A typical student load is 12 to 16 units of work per semester. A heavier or lighter study load may be recommended by a student's advisor or counselor. In no case will a student be enrolled in more than 18 (12 units for summer) units of work without approval of an MJC counselor. Students on probation or dismissed status may be limited to the work load judged most suitable for them. Petition forms for excess units can be obtained in Counseling Center.

LIMIT ON REMEDIAL COURSEWORK

Except as specifically exempted, students may not receive credit for more than 30 units of remedial coursework in math (MATH), English (ENGL), and reading (READ) courses numbered 1-49.

EXEMPTIONS

The following students will be exempt from the limit:

- Students enrolled in one or more courses of English Language Instruction for College (ELIC).
- Students identified by a college in the district as having a learning disability.

Students may be granted a waiver to the limitation upon petition to a college in the district. Waivers will be granted only when the student shows significant and measurable progress toward the development of skills necessary for college-level courses. Such waivers...
will be given only for a specified period of time or for a specified number of units. Students who are blocked from enrollment because of excessive remedial units should contact the Counseling Center, Student Services Building, Room 226.

**CREDIT FROM OTHER INSTITUTIONS**

*Evaluation Office*
East Campus, Student Services Building, Room 226
(209) 575-6605

Lower division credit will be accepted from institutions listed as being accredited by one of the six regionally accrediting associations that are recognized by the United States Secretary of Education. These six associations have been recognized as reliable authorities ensuring that the institutions that they accredit meet minimum levels of educational quality. MJC recognizes those institutions that are either fully accredited or are listed as a candidate for accreditation in the publication “Accredited Institutions of Higher Education” (provided the institution offering the courses accepts them towards its own degree.)

Veterans and reservists who have completed basic training will receive three units of Health Education credit and two units of Physical Education credit upon presentation of their separation papers. Credit for military schools will be granted if it is recommended in the “Guide to the Evaluation of Educational Experiences in the Armed Services.” Up to 18 units of credit may be awarded for USAFI (United States Armed Forces Institute) courses.

**“GENEX 000”**

GENEX 000 courses appear on the transcript to indicate transfer courses for which you have been granted transfer credit, without Modesto Junior College equivalent course credits. If you believe a course placed in GENEX 000 is equivalent to a specific MJC course you may contact the appropriate division office and submit a Course Equivalency Petition. At the time of submission you must also include a course description, syllabus and/or any other supporting documentation to substantiate your request.

**DIVISION CONTACT INFORMATION**

<table>
<thead>
<tr>
<th>DIVISIONS</th>
<th>LOCATION</th>
<th>PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture &amp; Environmental Sciences</td>
<td>Ag 100</td>
<td>(209) 575-6200</td>
</tr>
<tr>
<td>Allied Health</td>
<td>Glacier Hall, 165</td>
<td>(209) 575-6362</td>
</tr>
<tr>
<td>Arts, Humanities &amp; Communications</td>
<td>PAC 205</td>
<td>(209) 575-6081</td>
</tr>
<tr>
<td>Business, Behavioral &amp; Social Sciences</td>
<td>Founders Hall, 100</td>
<td>(209) 575-6129</td>
</tr>
<tr>
<td>Family &amp; Consumer Sciences</td>
<td>John Muir 154A</td>
<td>(209) 575-6354</td>
</tr>
<tr>
<td>Literature &amp; Language Arts</td>
<td>Founders Hall, 200</td>
<td>(209) 575-6149</td>
</tr>
<tr>
<td>Physical, Recreation &amp; Health</td>
<td>PE 105</td>
<td>(209) 575-6269</td>
</tr>
<tr>
<td>Science, Math &amp; Engineering</td>
<td>Science 134</td>
<td>(209) 575-6172</td>
</tr>
<tr>
<td>Technical Education</td>
<td>Sierra Hall 25SB</td>
<td>(209) 575-6332</td>
</tr>
</tbody>
</table>

**CREDIT FROM INSTITUTIONS OUTSIDE THE UNITED STATES**

Modesto Junior College does not evaluate international transcripts. A student must first have their foreign coursework evaluated by a National Associate in Credential Evaluation Services (NACES) affiliated foreign transcript service. The Evaluations Office has a list of transcript services. The cost of the evaluation is the responsibility of the student.
A maximum of 30 units can be accepted through this process. A student should meet with a counselor to identify possible courses, if any, may be eligible for review by the division offering the course.

Because transcripts evaluated by NACES affiliated foreign transcript services contain brief titles, students should submit as much information about the classes they have completed as possible. When requesting equivalency from a division, students should include: course catalog descriptions, topics covered, course syllabi, lecture hours, lab hours, prerequisites the course may have had, or any other information available.

The Evaluations Office will only consider lower division courses recommended by the affiliated foreign transcript service after approval by the MJC division offering the course is obtained. All grades of C or better will be converted to a Pass grade. These units will not be counted toward the student’s GPA.

Coursework taken outside the United States will not be used to satisfy the associate degree Reading and Written Expression or Oral Communication requirement. Possessing a foreign degree comparable to a bachelor's degree or higher does not satisfy the general education, competency requirements, and guidance and activities requirement for an associate degree at MJC without approved course equivalencies.

Transcripts received become the property of MJC and cannot be returned to the student, copied, nor forwarded to other colleges.

**Credit by Examination**

Enrollment Services
East Campus, Student Services Building, Room 102
(209) 575-6853

A student may petition for credit by examination in appropriate courses as determined by the academic division or area, provided the student has evidence of training and/or experience in that subject area. Students may take the exam one time only.

**To Be Eligible for Credit by Examination**
A student must be registered in other Modesto Junior College credit course(s) at the time the course is challenged.

**To Be Awarded Credit by Examination**
The student must have a grade notation in at least one other MJC credit course in the semester in which credit is awarded. [Notation includes grade, incomplete (I) or withdrawal (W)]

CAUTION: Please note that four-year college/university policies on awarding credit for courses taken on a credit by examination basis vary from campus to campus.

**Course Credit by Examination Will Not Be Granted:**
- If the units granted for a course would cause the student to have completed more than 30 units of credit by examination
- For a course in which a student is currently enrolled
- For a course that is below the academic level of a course already completed
- For a course in which a student has received a grade, i.e. a “W” will be regarded as a grade.
- For a course in which the student has received Advanced Placement (AP) credit.

**To Begin the Credit by Examination Process:**
Confer with the Academic Dean of the course subject area. Credit by Examination is not available for all courses. Check with the Dean to determine if the course you wish to challenge is available for Credit by Examination. Student must be able to provide evidence of training and/or experience in the subject area. The Dean will give the student
a Petition for Credit by Examination to complete. The student will return the form to the 
Division Office. A student who wishes to file for the credit-no credit option must submit 
this request at the time the Credit for Examination Petition is filed after the Division has 
approved the Credit by Examination Petition.

Pay the current per-unit* enrollment fee for each course at the MJC Business Office and 
bring the receipt to the Division Office.

Arrange a time and location for the examination with the Academic Dean, or instructor 
designated by the Dean

Units earned by examination do not count towards the residence requirement for 
graduation nor do they count toward full-time status. Petitions to do a Credit by 
Examination must be filed no later than seven weeks before the end of the semester. A 
current per-unit enrollment fee will be charged for each course challenged. (A waiver of 
fee may be granted based on Student Financial Services Office criteria.) See “A “W” will 
not be recorded on the academic record of the student who withdraws from one or more 
courses due to the circumstances described above” on page 45 for more information.

*Fee subject to change pending action by the CA State Legislature.

TECH PREP 2+2 PROGRAM CREDIT

While in high school, students can complete specific courses to earn MJC credit. Such 
courses are part of the 2+2 program. Students who successfully complete articulated 
2+2 high school courses with a grade of B or higher and enroll at MJC in a fall or spring 
semester following high school graduation will receive college credit(s). Please note: The 
2+2 articulation agreement between the high school institution and MJC may require the 
student to meet special conditions beyond those required of passing with a B grade to 
receive the college credit. Special conditions exist for agriculture, foreign language, and 
mathematics courses.

HOW TO ENROLL & PARTICIPATE:

- At the beginning of a 2+2 course the student must complete a Student Request to Participate 
  form for the course articulated at the high school.
- Completed forms must be submitted to the MJC Early College/Tech Prep 2+2 program.
- After the high school course is completed and the grade is earned, students earning B grades or 
  higher will receive credit.

CONDITIONS FOR 2+2 CREDIT ON THE MJC TRANSCRIPT

- If a student meets all conditions specified in the course’s 2+2 Articulation Agreement, the grade 
  earned in the high school course will be posted on the student’s MJC transcript.
- For further information contact: Flerida Arias, Morris Bldg. Rm. 209, (209) 575-7858.
AP Credit (Advanced Placement)

Modesto Junior College honors College Board Advanced Placement (AP) examination scores of 3, 4, or 5 and will grant credit where appropriate in accordance with the following policies and procedures.

TO REQUEST OFFICIAL AP SCORE REPORTS

1. Complete an Application to Enroll at MJC. AP scores can only be used for academic credit by enrolled MJC students.
2. Using MJC’s 4-digit college ID (4486), visit the College Board AP Program website to request that an official AP Score Report be sent to the address below. Fees may be required.
3. Allow 4-6 weeks before logging in to Piratesnet to check your unofficial transcript. You will see how your AP scores have been interpreted in accordance with MJC policy. For example, a student who has successfully completed the AP Biology examination will see this on the transcript:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Name</th>
<th>Units Attempted</th>
<th>Units Earned</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>APT:BIOL</td>
<td>AP Biology</td>
<td>0</td>
<td>4</td>
<td>P</td>
</tr>
</tbody>
</table>

AP Score Report Evaluation Process

Upon MJC receipt of the AP Score Report, AP Examination scores of 3, 4, or 5 will automatically:

- Apply as elective unit credit to the 60 units required for associate degree
- Be used to satisfy General Education breadth area and unit requirements as indicated on the AP Grid on the following page.

Using AP Scores for Other MJC Requirements

For Degrees, Certificates, or Skills Recognition Requirements

To use an AP score to satisfy a course requirement for an MJC award, follow the Course Substitution Process in use by the college division that offers the course. Visit the division office to get a Course Substitution form.

To Satisfy Prerequisites for Courses

To use an AP examination score to satisfy a course prerequisite, students will need to request and complete a Prerequisite Challenge Petition in the division office offering the course. TRANSFER CAUTION: CSU and UC policies vary on the use of AP credit to satisfy academic requirements. Students who use AP scores to satisfy prerequisites at MJC may encounter later challenges meeting academic requirements at the transfer institution. Students should review AP credit policies at their targeted transfer institutions before attempting to use AP credit to satisfy prerequisites at MJC.

Transferring with AP Credit

If the student plans to transfer to a public or private university to pursue a baccalaureate degree, bear in mind that AP credit-granting policies vary at each institution for:

- admission
- major requirements
- prerequisites
- baccalaureate degree requirements
- GE Breadth requirements

To learn about AP credit-granting policies upheld by transfer institutions, students should meet with an MJC counselor and research AP policies on the Internet.

- University of California (UC) AP Credit Policy: http://admission.universityofcalifornia.edu/counselors/exam-credit/ap-credits/
- California State University (CSU) AP Credit Policy: http://calstate.edu/transfer/requirements/AdvancedPlacementAPCourses.shtml

MJC students who have earned course credit at MJC for an AP exam should not take the comparable MJC course. Transfer credit will not be granted for both.

CSU-GE Breadth - AP Credit

Because the CSU system honors full or area CSU-GE “breadth certifications” from MJC for the baccalaureate degree, certifications showing that AP scores were used to satisfy MJC’s CSU-GE requirements will also satisfy the transfer CSU’s breadth requirement for baccalaureate degree. For more information on the CSU-GE Certification process and AP examinations, visit the Counseling Office, Student Services Building, Room 226. (CSU Executive Order 1036, Section 1.2.4)

IGETC Breadth - AP Credit Rules and Exceptions

AP Exam scores do not expire and can therefore be used to satisfy IGETC requirements regardless of when the exams were taken so long as that examination is still honored by IGETC. AP exam scores of 3, 4, or 5 be used to satisfy one IGETC area course requirement, with the exception of the following:

- AP credit from a foreign language exam may be used to satisfy IGETC: 6A Language other than English and IGETC 3B: Humanities
- AP credit cannot be used to satisfy IGETC:1B Critical Thinking
- AP credit cannot be used to satisfy IGETC:1C Oral Communication
AP GRID

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>COMPETENCIES IN ART</th>
<th>ART SPANISH</th>
<th>WSC SCIENCE &amp; ART SPANISH</th>
<th>WSC SCIENCE &amp; ART SPANISH</th>
<th>CSU GE ACR &amp; UNIV DEGREE</th>
<th>CSU GE ACR &amp; UNIV DEGREE</th>
<th>MJC GE ACR &amp; UNIV DEGREE</th>
<th>MJC GE ACR &amp; UNIV DEGREE</th>
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<tbody>
<tr>
<td>Art History</td>
<td>C1 or C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SBw/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
</tr>
<tr>
<td>Biology</td>
<td>A</td>
<td>B1</td>
<td>B2 &amp; B3</td>
<td>SBw/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>D2</td>
<td>B4</td>
<td>A</td>
<td>2</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>D2</td>
<td>B4</td>
<td>A</td>
<td>2</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
<tr>
<td>Calculus BC (AB Subscore)</td>
<td>D2</td>
<td>B4</td>
<td>A</td>
<td>2</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
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<tr>
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<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>5A w/SC</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>Comparative Govt. &amp; Politics</td>
<td>E1</td>
<td>D6</td>
<td>A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
<tr>
<td>Computer Science A or A/B</td>
<td>D2</td>
<td>N/A</td>
<td>N/A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>English Language &amp; Composition</td>
<td>B1</td>
<td>A2</td>
<td>A2 &amp; C2</td>
<td>1A or 3</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>Environmental Science</td>
<td>C1</td>
<td>A</td>
<td>C2 &amp; D6</td>
<td>3B &amp; 4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>German Language</td>
<td>C2</td>
<td>C2</td>
<td>A</td>
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<td>SC</td>
<td>3B &amp; 6A</td>
<td>C2</td>
<td>A</td>
</tr>
<tr>
<td>German Language and Culture</td>
<td>C2</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>3B &amp; 6A</td>
<td>C2</td>
<td>A</td>
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<td>Human Geography</td>
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<td>D6</td>
<td>A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>Macroeconomics</td>
<td>D1</td>
<td>D1</td>
<td>A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>Microeconomics</td>
<td>D1</td>
<td>D1</td>
<td>A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>Music Theory</td>
<td>C1</td>
<td>C1</td>
<td>A</td>
<td>4</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
<tr>
<td>Physics 1</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>5A w/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
</tr>
<tr>
<td>Physics 2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>5A w/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
</tr>
<tr>
<td>Physics B</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>5A w/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
</tr>
<tr>
<td>Physics C, Mechanics</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
<td>5A w/SC</td>
<td>C2</td>
<td>A</td>
<td>B1</td>
<td>SC</td>
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<td>Psychology</td>
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<td>B1 &amp; B3</td>
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<tr>
<td>Statistics</td>
<td>D2</td>
<td>D2</td>
<td>B4</td>
<td>5A</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<td>StudioArt -2D/3DDesign, Drawing</td>
<td>E</td>
<td>D6 &amp; U5-2</td>
<td>4</td>
<td>U5-2</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
<tr>
<td>U.S. Government &amp; Politics</td>
<td>E1</td>
<td>E4</td>
<td>E4</td>
<td>U5-1</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<td>U.S. History</td>
<td>E1</td>
<td>E4</td>
<td>E4</td>
<td>U5-1</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
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<tr>
<td>World History</td>
<td>B1 &amp; C2</td>
<td>C2</td>
<td>D6 &amp; B3</td>
<td>3B</td>
<td>C2</td>
<td>A</td>
<td>B1 &amp; B3</td>
<td>SC</td>
</tr>
</tbody>
</table>

**LEGEND**
- MJC "Math" Competency Met or Exceeded
- MJC "Written Expression" Competency Met or Exceeded
- MJC "Activities Requirement" fulfilled (and units earned as indicated)
- Units earned

* Areas of American Institutions (US-1 through US-3) are set forth in sections 1A and 1B of EO 405, and at www.assist.org. This exam, by itself, does not satisfy all three areas required for American Institutions certification. Meet with a counselor for assistance.

**LEGEND CONTINUED**
- Students seeking certification in GE breadth prior to transfer must have passed the exam before Fall 09.
- If a student passes more than one AP exam in physics, only six units of credit may be applied to the baccalaureate, and four units of credit may be applied to a certification in GE Breadth.
- AP exams may be used in either area regardless of where the certifying CCC’s discipline is located.
- Students who pass AP Environmental Science earn 4 units of credit. Exams taken prior to Fall 09 may apply to either (B1+B3) or (B2+B3) of GE Breadth. Exams taken Fall 09 or later may only apply to (B1+B3).
- Exams taken before Fall 2009 earn 6 units of credit of CSU Breadth. Exams taken Fall 09 or later earn units reflected on the AP grid.
- If a student passes more than one AP exam in calculus or computer science, only one examination may be applied to the baccalaureate.
- Students seeking certification in GE breadths prior to transfer must have passed the exam before Fall 12.
- Exam taken before Spring 14 earn 6 units of credit of CSU-GE C2 credit.
- Exam taken before Spring 13 earn 6 units of credit of CSU-GE C2 credit.
- Exam taken before Spring 14 earns 3 units of IGETC credit for 3B and 3 units for 6A.

**AP ALLOWANCES AND RESTRICTIONS**
- Units earned from AP exams, while recorded as “pass/no pass” or “P/NP” units on the transcript, are not subject to the college maximum of 14 units of P/NP grading.
- Units earned from AP exams will not be considered units earned through “Credit by Examination”, and therefore are not subject to the college’s maximum of 30 Credit by Examination units.
- Units earned from AP exams cannot be used to satisfy the college’s Twelve-Units-in-Residence requirement for associate degree.
- Units earned from AP exams cannot be used as evidence of enrollment at MJC in order to satisfy eligibility criteria for financial aid, veterans programs, or EOPS.

**AP SCORE OVERVIEW**

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>Score</th>
<th>Allows students to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language or English Literature</td>
<td>3 or 4</td>
<td>Bypass the MJC English Assessment</td>
</tr>
<tr>
<td>Calculus AB†</td>
<td>4 or 5</td>
<td>Bypass the MJC Mathematics assessment</td>
</tr>
<tr>
<td>Calculus BC†</td>
<td>4 or 5</td>
<td>Bypass the MJC Mathematics assessment</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>5</td>
<td>Enroll in MATH 173*</td>
</tr>
</tbody>
</table>

* Students earning a 5 on the BC Calculus AP exam may enroll in MATH 173, but are strongly encouraged to enroll in MATH 172 instead. Students wishing to start in MATH 172 will need to enroll in-person at the Admissions Office.
† Students who earn a 4 or 5 on the Calculus AB or Calculus BC exams will need to complete a Prerequisite Challenge Form at the Science Math and Engineering Division Office to petition enrollment in MATH 113, MATH 121, MATH 122, or MATH 138. Students should provide a strong case as to why they wish to “repeat” the course.

Sources: IGEC version 1.7 (June 2, 2016), CSU ED. 1036, Section 1.2.4 (November 10, 2015)
IB Credit (International Baccalaureate)

Modesto Junior College honors and applies many International Baccalaureate (IB) exam scores toward the fulfillment of college requirements and will grant credit in accordance with the following policies and procedures.

TO REQUEST IB DIPLOMA PROGRAM TRANSCRIPTS FOR MJC
1. Complete an application to enroll at MJC. IB scores can only be used for academic credit by enrolled MJC students.
2. Contact the IB Diploma Program Coordinator at the high school attended to request that the student's official Diploma Program transcript be sent to:

   Enrollment Services
   Modesto Junior College
   435 College Avenue
   Modesto, CA 95350
   For more information: http://www.ibo.org/en/programmes
3. Allow 4-6 weeks before logging in to Piratesnet to check your unofficial transcript. You will see how your IB scores have been interpreted in accordance with MJC policy. For example, a student who has successfully completed the IP Biology examination will see this on the transcript:

   Course ID | Course Name    | Units Attempted | Units Earned | Grade
   110-BIOL  | IB Biology     | O               | 3            | P

IB DIPLOMA PROGRAM EVALUATION PROCESS

Upon MJC’s receipt of the IB Diploma Program Transcript, IB Examination scores of 5, 6, or 7 will automatically:
• apply as elective unit credit to the 60 units required for associate degree
• be used to satisfy General Education breadth area and unit requirements as indicated on the IB Grid on the following page.

USING IB SCORES FOR OTHER MJC REQUIREMENTS

FOR DEGREES, CERTIFICATES, OR SKILLS RECOGNITION REQUIREMENTS
To use an IB score to satisfy a course requirement for an MJC award, follow the Course Substitution Process upheld by the college division that offers the course. Visit the division office to get a Course Substitution form.

TO SATISFY PREREQUISITES FOR COURSES
To use an IB examination score to satisfy a course prerequisite, students will need to request and complete a Prerequisite Challenge Petition in the division office offering the course. TRANSFER CAUTION: CSU and UC policies vary on the use of IB credit to satisfy academic requirements. Students who use IB scores to satisfy prerequisites at MJC may encounter later challenges meeting academic requirements at the transfer institution. Students should review IB credit policies at their targeted transfer institutions before attempting to use IB credit to satisfy prerequisites at MJC.

TRANSFERRING WITH IB CREDIT
If the student plans to transfer to a public or private university to pursue a baccalaureate degree, bear in mind that IB credit-granting policies vary at each institution for:
• admission
• major requirements
• prerequisites
• baccalaureate degree requirements
• GE Breadth requirements

To learn about IB credit-granting policies upheld by transfer institutions, students should meet with an MJC counselor and research IB policies on the Internet.
• University of California (UC) IB credit policy: http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html
• California State University (CSU) Policy for IB Credit: www.calstate.edu/app/general-ed-transfer.shtml

MJC students who have earned course credit at MJC for an IB exam should not take the comparable MJC course. Transfer credit will not be granted for both.

IB ALLOWANCES AND RESTRICTIONS
• Units earned from AP exams, while recorded as “pass/no pass” or “P/NP” units on the transcript, are not subject to the college maximum of 14 units of P/NP grading.
• Units earned from IB exams will not be considered units earned through “Credit by Examination”, and therefore are not subject to the college's maximum of 30 Credit by Examination units.

IB RESTRICTIONS
• Only Higher Level (HL) exams can be used to satisfy requirements.
• Credit earned for IB exams cannot be used in lieu of MJC Assessment test scores to place into courses with prerequisites in English, reading or math. Students must complete the MJC Assessment process to ensure accurate placement.
• Units earned from IB exams cannot be used to satisfy the college's Twelve-Units-in-Residence requirement for associate degree.
• Units earned from IB exams cannot be used as evidence of enrollment at MJC in order to satisfy eligibility criteria for financial aid, veterans programs, or EOPS.
CSU-GE BREADTH - IB CREDIT

Because the CSU system honors full or area CSU-GE “breadth certifications” from MJC for the baccalaureate degree, certifications showing that IB scores were used to satisfy MJC’s CSU-GE requirements will also satisfy the transfer CSU’s breadth requirement for baccalaureate degree. For more information on the CSU-GE Certification process and IB examinations, visit the Counseling Office, Student Services Building, Room 226. (CSU Executive Order 1036, Section 1.2.4)(CSU Executive Order 1036, Section 1.2.4)

IGETC version 1.6 (June 5, 2015)

<table>
<thead>
<tr>
<th>EXAM NAME</th>
<th>MJC-GE</th>
<th></th>
<th>CSU-GE</th>
<th></th>
<th>IGTEC</th>
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<tbody>
<tr>
<td></td>
<td>MINIMUM/SCORE</td>
<td>GE AREA</td>
<td>UNITS EARNED</td>
<td>MINIMUM/SCORE</td>
<td>GE AREA</td>
<td>UNITS EARNED</td>
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<tr>
<td>Biology HL (without lab)</td>
<td>5 A</td>
<td>3</td>
<td>5 B2</td>
<td>3</td>
<td>5 SB</td>
<td>3</td>
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<tr>
<td>Chemistry HL (without lab)</td>
<td>5 A</td>
<td>3</td>
<td>5 B1</td>
<td>3</td>
<td>5 SA</td>
<td>3</td>
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<tr>
<td>Economics HL</td>
<td>5 B</td>
<td>3</td>
<td>5 D2</td>
<td>3</td>
<td>5 A</td>
<td>3</td>
</tr>
<tr>
<td>Geography HL</td>
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<td>3</td>
<td>5 D5</td>
<td>3</td>
<td>5 A</td>
<td>3</td>
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<tr>
<td>History HL (any region)</td>
<td>5 B or C</td>
<td>3</td>
<td>5 C2 or D6</td>
<td>3</td>
<td>5 SB or 4</td>
<td>3</td>
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<tr>
<td>Language A HL* Literature (any language except English)</td>
<td>5 B</td>
<td>3</td>
<td>5 C</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language A HL* Language &amp; Literature (any language except English)</td>
<td>5 B</td>
<td>3</td>
<td>5 C</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language A HL* Literature (any language)</td>
<td>5 B</td>
<td>3</td>
<td>5 C</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language A HL * Language &amp; Literature (any language)</td>
<td>5 B</td>
<td>3</td>
<td>5 C</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Language B HL * (any language)</td>
<td>5 A</td>
<td>3</td>
<td>N/A</td>
<td>3</td>
<td>5 A</td>
<td>3</td>
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<tr>
<td>Language A1 (any language) HL</td>
<td>5 C</td>
<td>3</td>
<td>4 C2</td>
<td>3</td>
<td>5 B</td>
<td>3</td>
</tr>
<tr>
<td>Language A2 (any language) HL</td>
<td>5 C</td>
<td>3</td>
<td>4 C2</td>
<td>3</td>
<td>5 B</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics HL</td>
<td>5 D2</td>
<td>3</td>
<td>5 B4</td>
<td>3</td>
<td>5 2A</td>
<td>3</td>
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<tr>
<td>Physics HL (without lab)</td>
<td>5 B</td>
<td>3</td>
<td>5 D9</td>
<td>3</td>
<td>5 A</td>
<td>3</td>
</tr>
<tr>
<td>Psychology HL</td>
<td>5 C</td>
<td>3</td>
<td>4 C1</td>
<td>3</td>
<td>5 3A</td>
<td>3</td>
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</tbody>
</table>

* The IB curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-natives. Language A1 and A2 are advanced courses in literature for native and non-native speakers respectively.

HL “Higher Level” Exams only

MJC “Math” Competency Met or Exceeded

1. IB Examinations may be used in either area regardless of where the certifying CCC’s discipline is located.

2. Exam taken before fall 2013 earns 3 units of credit of CSU Breadth

(Rev 3/07/17 LSM/sp) Updated 67
Applying for and Receiving Academic Awards

Martha Robles
Dean of Counseling and Student Learning
East Campus: Student Services Building Room 226
Website: mjc.edu/studentservices/enrollment
Phone: (209) 575-6605

ABOUT MJC AWARDS
The Board of Trustees of the District shall award the associate in arts degree, the Associate in science degree, and the certificate of achievement to applicants upon the satisfactory completion of the requirements as listed in this catalog.

PHILOSOPHY OF THE ASSOCIATE’S DEGREE AND GENERAL EDUCATION
(a) The governing board of a community college district shall adopt a policy which states its specific philosophy on General Education. In developing this policy governing boards shall consider the following policy of the Board of Governors:

The awarding of an associate degree is intended to represent more than an accumulation of units. It is to symbolize a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights.

Among these are the ability to think and to communicate clearly and effectively both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, the student shall possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Central to an associate degree, General Education is designed to introduce students to the variety of means through which people comprehend the modern world. It reflects the conviction of colleges that those who receive their degrees must possess in common certain basic principles, concepts and methodologies both unique to and shared by the various disciplines. College educated persons must be able to use this knowledge when evaluating and appreciating the physical environment, the culture and the society in which they live. Most importantly, General Education should lead to better self-understanding.

In establishing or modifying a general education program, ways shall be sought to create coherence and integration among the separate requirements. It is also desirable that general education programs involve students actively in examining values inherent in proposed solutions to major social problems.

(b) The governing board of a community college district shall also establish criteria to determine which courses may be used to implementing its philosophy on the associate degree and general education.

(c) The governing board of a community college district shall, on a regular basis, review the policy and criteria established pursuant to subsections (a) and (b) of this section.

Reaffirmed by the MJC Curriculum Committee, 1/25/2011
EARNING MULTIPLE ASSOCIATE’S DEGREES

A student may earn more than one associate in arts and/or associate in science degree from Modesto Junior College. A course used for a prescribed graduation requirement or to meet general education requirements may count toward more than one degree. In addition, a student may not earn an AA and an AS in the same program.

APPLYING FOR AN ASSOCIATE’S DEGREE OR CERTIFICATE ACHIEVEMENT

A candidate for an associate in arts degree, associate in science degree or a certificate of achievement must file an application for the degree or certificate in the Evaluations Office, Student Services Building, Room 226, when the student is in his or her last semester of program completion. No student, however, is a candidate for graduation until the degree or certificate application is completed. Graduation ceremonies for degree candidates are held at the end of the spring semester each year. Diplomas will be dated at the end of the semester or summer session in which the qualified student applies. Diplomas and certificates are available to successful candidates approximately two months after term is completed.

GRADUATION CEREMONY FOR ASSOCIATE DEGREE EARNERS

Instructions for graduating will be outlined in an early spring edition of the Graduation Newsletter. The Graduation Newsletter includes information about commencement exercise, student speakers, graduation luncheon, graduating with honors, graduation fees, caps, gowns and announcements.
Transcripts and Academic Records

Enrollment Services
Francisco Bañuelos
Dean of Enrollment Services
East Campus: Enrollment Services Office, Student Services Building, Room 102
Phone: (209) 575-6853
Website: mjc.edu/studentservices/enrollment/
Fax: (209) 575-6859

OFFICIAL TRANSCRIPTS

Modesto Junior College offers an online transcript request 24/7 process via The National Student Clearinghouse. All current and former students can order an official transcript at their convenience through the MJC website. There are several types of processing options available. Check online for details on how to have transcripts sent from MJC.

- Each transcript request must be submitted via the college website, or completing a Free Transcript Request Form by the student to the Enrollment Services Office.
- Each transcript will include the student's entire record of courses completed at MJC.

Official transcripts or records earned at other institutions which have been presented for admissions or evaluations become part of the student's permanent record and are not issued or copied for distribution.

Official transcripts will not be issued for students who have a financial obligation to the college or any other type of hold on their records. Any financial obligation to the college should be resolved in Business Services.

To comply with the student privacy laws, transcripts cannot be sent in response to telephone requests. Transcripts cannot be issued without written consent or release signed by the student with the exception of transcripts being sent directly to another educational institution.

Students are advised to submit official previous high school (once graduation date is posted) and/or college transcripts as soon as they apply for admission to MJC. These transcripts become the property of MJC and cannot be returned to the student, copied, nor forwarded to other colleges.

The MJC Enrollment Services Office will accept only official transcripts from regionally accredited institutions. Official transcripts are those that are electronically transmitted from regionally accredited institutions utilizing approved electronic transmittal systems or those that are delivered in an unopened, sealed envelope from the issuing institution. Contact the Enrollment Services Office for additional information on electronic submission.

The MJC Evaluations Office recommends that these transcripts be sent at least 12 weeks prior to registration. Upon receipt of outside transcripts, students will be notified via the college issued student email that their transcripts have been received. In order to have a full evaluation of a transcript, students must submit a Transfer Work Evaluation Request Form. The evaluation request form is attached to the email notification. This important evaluation provides information to the student and counselor about course work completed at other colleges. For more information, call the Evaluations Office at 575-6605 or talk to your counselor.
REPORT CARDS
Report cards are not issued at MJC. Grades are posted online at PiratesNet. As soon as instructors enter their grades and the Enrollment Services Office verifies them, they are available at this site.

ENROLLMENT AND GRADE VERIFICATION
Enrollment verifications and grade verifications will be issued upon written request to the Enrollment Services Office. Students should allow at least ten (10) working days for the processing of verifications.

To comply with student privacy laws, students must request verifications by completing and signing a Verification Request Form, available in the Enrollment Services Office.

Verifications will not be issued for students who have a financial obligation to the college or any other type of hold on their records. Any financial obligation to the college should be resolved in the Business Services Office. Photo identification is also required to release the verification. For additional information on requesting MJC verifications, contact the Enrollment Services Office (209) 575-6853.

DEGREE VERIFICATION
Modesto Junior College has authorized the National Student Clearinghouse to provide enrollment and degree verifications. Please visit www.degreeverify.org for pricing and more information.

ACADEMIC RECORDS REGULATIONS
Responsibility for student records rests with the Enrollment Services Office. However, each college department which houses student records is charged with maintaining their privacy and access according to college policy. Division deans are responsible for certain student files when those students are enrolled in majors within the dean’s division. Students may find files that pertain to them in the division office of their academic major.

In addition, student information is maintained under the supervision of the Vice President of College and Administrative Services (student financial responsibility), Vice President of Student Services (financial aid, counseling materials), Vice President of Instruction, (apprenticeship, community services, work experience), and the Dean of Enrollment Services (all permanent academic files).

Student records will be reviewed annually, and those which are no longer required to be maintained will be destroyed in accordance with Title 5 regulations.

Student information designated as public directory information may be released at the discretion of the college to anyone at any time unless the college has received a prior written objection from the student specifying information which should not be released. Modesto Junior College will not release directory information for individual use or to private business or commercial firms for use in advertising or publicity. Directory information includes: student participation in officially recognized activities and sports, including weight and height and high school of graduation of athletic team members, degrees and awards received, including honors, scholarship awards, athletic awards, and President’s List recognition, start/end date of enrollment, part-time/full-time enrollment (current & past semesters), awards received, including type of degree or certificate awarded/date awarded.

A student’s records are open to the student, employees of the college acting in the course of their duties, and state and federal officials as defined in Sections 54610 and 54622 of the California Administrative Code.
MJC may grant access to individual student records for educational or emergency purposes and for court orders as permitted in Sections 54620 and 54622 of the California Administrative Code.

Students may ordinarily review their records at any time during working hours. The college will make records available within five to ten working days of a student’s written request.

Students can file a complaint against MJC if they feel a privacy or records access/correction violation has been made. The complaint must be made in writing to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

STUDENT RECORDS & PRIVACY ACT

For the purposes of this policy, Modesto Junior College (MJC) uses the following definitions of terms.

Student - any person who attends or has attended Modesto Junior College (MJC), regardless of age.

Education records - any record (in handwriting, computerized print, tapes, film, or other medium) maintained by MJC or an agent of the college that is directly related to a student, except:

- A personal record kept by a staff member, if it is kept in the personal possession of the individual who made the record, and information contained in the record has never been revealed or made available to any other person except the maker’s temporary substitute.
- An employment record of an individual whose employment is not contingent on the fact that he or she is a student, provided the record is used only in relation to the individual's employment.
- Records maintained by MJC Security if the record is maintained solely for law enforcement purposes, is revealed only to law enforcement agencies of the same jurisdiction and does not have access to education records maintained by the College.
- Records maintained by Health Services if the records are used only for treatment of a student and made available only to those people providing the treatment.
- Alumni records containing information about a student after he or she is no longer in attendance at the college and the records do not relate to the person as a student.

PROCEDURE TO INSPECT RECORDS

Students may inspect and review their education records upon request to the appropriate record custodian. Students should submit to the record custodian or an appropriate college staff member a written request identifying as precisely as possible the record or records he or she wishes to inspect.

The record custodian or an appropriate college staff member will make the needed arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given in 15 days or less from the receipt of the request.

When a record contains information about more than one student, the student may inspect and review only the records that relate to him or her.

REFUSAL TO PROVIDE COPIES OF RECORDS

MJC reserves the right to deny transcripts or copies of records not required to be made available by FERPA if the student:

- lives within commuting distance of the college
- has an unpaid financial obligation to the college
- has an unresolved disciplinary action against him or her
DISCLOSURE OF RECORDS
MJC will disclose information from a student’s education records only with the written consent of the student, except:

1. To college officials who have a legitimate educational interest in the records. A college official is:
   a. A person employed by the college in an administrative, supervisory, academic, research or support staff position.
   b. A person elected to the Board of Trustees.

2. A person employed by or under contract to the college to perform a special task, such as the attorney or auditor.

3. A college official has a legitimate educational interest if:
   a. Performing a task that is specified in his or her position description or by a contract agreement.
   b. Performing a task related to a student’s education.
   c. Performing a task related to the discipline of a student, or
   d. Providing a service or benefit relating to the Student or student’s family, such as health care, counseling, job placement or financial aid.

4. Information defined as directory information.

5. To officials of another school or college, upon request, in which a student seeks or intends to enroll.

6. To certain officials of the U.S. Department of Education, the Comptroller General and state and local educational authorities, in connection with certain state or federally supported education programs.

7. In connection with a student’s request for or receipt of financial aid, as necessary to determine the eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid.

8. To organizations conducting certain studies for or on behalf of the college.

9. To accrediting organizations to carry out their functions.

10. To comply with a judicial order or a lawfully issued subpoena.

11. To appropriate parties in a health or safety emergency.

RECORD OF REQUESTS FOR DISCLOSURE OF RECORDS
MJC will maintain a record of all requests for and/or disclosure of information from a student’s education records. The record will indicate the name of the party making the request, any additional party to whom it may be disclosed and the legitimate interest the party had in requesting or obtaining the information.

CORRECTION OF RECORDS
Any student may file a written request with the President to correct or remove information recorded in his student records which he or she alleges to be:

- inaccurate;
- an unsubstantiated personal conclusion or interference;
- a conclusion or interference outside of the observer’s area of competence; or;
- not based on the personal observation of a named person with the time and place of the observation noted. This procedure does not include the correction of a grade.
THE SOLOMON AMENDMENT

Federal statute (public law 104-208 and public law 104-206, commonly known as the Solomon Amendment) requires that community colleges provide student directory information to the Department of Defense, including military recruiters, upon request.

ANNUAL NOTIFICATIONS:
EDUCATIONAL RESEARCH AND THE PRIVACY OF STUDENT EDUCATION RECORDS

Educational research, including assessment and evaluation of the teaching and learning process, is periodically conducted at Modesto Junior College in established or commonly accepted educational settings, involving normal educational practices.

The Family Educational Rights and Privacy Act (FERPA) is a "Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education." (http://www.ed.gov/policy/gen/guid/fpco/ferpa/index.html) "No district representative shall release the contents of a student record to any third party without prior written consent of the student, other than directory information as defined in this policy and information sought pursuant to a court order or lawfully issued subpoena, or as otherwise authorized by applicable federal and state laws." (YCCD Board Policy 5040: FERPA "prohibits the release of student records (verbally, in writing, or by any other means) … unless there is a specific statutory authorization or a legitimate education interest to be used internally, a need to know (as part of fulfilling job duties) or an emergency." (YCCD Research Work Group Research Request Protocol)

You are protected under both FERPA and the U.S. Department of Health and Human Services, Office for Human Research Protections. (http://www.hhs.gov/ohrp/)
Student Services at Modesto Junior College

Student Services on Campus

OFFICE OF STUDENT SERVICES

James Todd
Vice President of Student Services
Morris Memorial Building Room 204
Phone: (209) 575-6060, Fax: (209) 575-6169

Support Staff
Geri Vargas, Executive Secretary

Student Services at Modesto Junior College has as its chief function the facilitation of the education, growth and development of students. The vision of Student Services is to provide exemplary services that support, inspire and empower students to achieve their goals. Our mission is to provide services and programs in partnership with other areas of the college and the community that will maximize each student’s success. All Student Services offices value: access, diversity, honesty, innovation, integrity, kindness, respect, and trust.

ASSESSMENT TESTING AT THE TESTING CENTER
Phone: (209) 575-6853
See website below for location: www.mjc.edu/assessment

The Testing Center administers tests for placement purposes. These tests provide students with results that help them and their counselors understand their individual ability levels.

Testing is one of many measures used by college personnel to assist students in determining course placement in mathematics, English, reading, and ELIC courses. Assessment tests are scheduled throughout the year, and should be taken as soon as students complete the college orientation and are admitted to the college to ensure that the results will be available for advising and registration.

Assessment testing is a free service; however, other tests offered through the Testing Center may require a fee. To inquire about test dates and fees, please contact the Testing Center or go to www.mjc.edu/assessment.
BOOKSTORE
East Campus, Student Center
Phone: (209) 575-6840 FAX: (209) 575-6851
Email: bookstore.yosemite.cc.ca.us
West Campus, MSR 154, Phone: (209) 575-6966
The Pirates Bookstore East Campus carries textbooks for classes that are held on the East Campus as well as school and office supplies, general books, MJC collegiate fashions, gifts, greeting cards, candy, snacks, and electronics. East Campus Bookstore also carries a wide variety of artist materials and supplies that are required by MJC instructors. We have partnered with Journey Ed to offer computer software at educational prices.

The West Campus Pirates Bookstore carries textbooks for the classes that are conducted on the West Campus as well as school and office supplies, candy, snacks, MJC collegiate fashions, gifts, and electronics.

MJC catalogs may be obtained at both bookstores and can be mailed prepaid on our website. Bookstore hours are extended during the beginning of each semester.

Visit us at our website: bookstore.yosemite.cc.ca.us to order your text online, find out about buyback dates and store hours.

CALWORKS PROGRAM
East Campus: Student Services Building, Room 200
Phone: (209) 575-7770
Website: mjc.edu/studentservices/calworks
CalWORKs stands for California Work Opportunity and Responsibility to Kids. The CalWORKs Programs provides support services to eligible students.

The CalWORKs Program is state-funded, which works in conjunction with the Stanislaus County Community Service Agency office. To qualify for MJC CalWORKs students must be receiving TANF (cash aid) for themselves. In order to ensure academic success, the MJC CalWORKs program provides eligible students with educational opportunities and a variety of support services, including counseling, book loan, child care, work-study student employment, and bus passes.

CAMPUS LIFE & STUDENT LEARNING
Bryan Justin Marks
Associate Dean of Campus Life & Student Learning
Phone (209) 575-6700
The Campus Life & Student Learning Department is located in the East Campus Student Center, room 2. Campus Life & Student Learning oversees Student Conduct, Associated Students of Modesto Junior College, Campus Clubs, the Mary Student Rogers Student Center, and the Student Activities Center (East Campus Student Center, room 3). Additionally, Campus Life & Student Learning oversees special events and activities such as MJC’s Commencement, African American Education Conference, Hispanic Education Conference, Homecoming and many more.

CARE PROGRAM
East Campus, Student Services Building Room 210,
Phone: (209) 575-6702
The Cooperative Agencies Resources for Education Program (CARE) is a supplemental component of EOPS. The CARE Program strives to enhance self-esteem, develop college success skills and assist students with meeting their educational goals. CARE provides an eligible student a variety of educational and economic support services above and beyond those provided by EOPS, college, state, county and federal aid resources.

A student may qualify for childcare reimbursements, bus passes, gas cards, and an additional textbook allowance beyond that provided by EOPS. The Program also provides eligible single parents advocacy and liaison services to facilitate the acquisition of CalWORKS resources, as well as informational workshops, an annual winter/spring holiday season and cultural events. For more information call the CARE Program services representative at the number above.

TO QUALIFY FOR THE CARE PROGRAM
A STUDENT MUST:
1. Be EOPS eligible;
2. Hold “Single Parent Head of Household” status;
3. Have one or more children under the age of 14 years;
4. Parent or child must be a recipient of TANF cash aid.

**CAREER DEVELOPMENT & TRANSFER CENTER**

Leticia Cavazos, Counselor/Coordinator  
Career Development & Transfer Center  
East Campus: Student Center  
Phone: (209) 575-6239

The Career Development and Transfer Center houses the Career Center, Job Placement and Transfer Center services under one roof.

**CAREER DEVELOPMENT CENTER**

Website: [www.mjc.edu/career](http://www.mjc.edu/career)  
Career Development services provide students and prospective students with valuable career exploration tools and resources such as career workshops, software programs, internet websites, and books. Referrals for career testing and assessments, which may assist students in career selection will be made based on student needs.

**JOB PLACEMENT**

Website: [www.mjc.edu/jobsforstudents](http://www.mjc.edu/jobsforstudents)  
Job Placement services help MJC students and alumni find employment opportunities by connecting them with local employers who are looking to hire. The Career Development and Transfer Center serves as a liaison with employers throughout the area who are looking to hire MJC students and graduates. Job Placement activities consist of the following:

- Leads to full-time & part-time opportunities
- On-Campus recruitments by employers
- Job Fairs (Fall and Spring semesters)
- Internship Opportunities
- Labor Market Information
- Resume & Interviewing Tips
- Job Hunting Resources
- Email Job Alert

**TRANSFER CENTER**

Website: [www.mjc.edu/transfer](http://www.mjc.edu/transfer)  
The Transfer Center’s function is to assist MJC students in making a smooth transition to four-year colleges and universities. The Transfer Center supports students planning to transfer by providing information and assistance crucial in the development of successful transfer pathways. Some of the transfer activities consist of the following:

- TAG’s Transfer Admission Guarantee - Contracts to designated four-year colleges and universities
- Individual appointments with counselors and university representatives
- Transfer workshops such as “Pathways to Transfer Success,” “Completing a Transfer Admission Guarantee,” and “Writing a Personal Statement”
- Free campus tours of four-year universities
- Assistance with electronic applications and application fee waivers
- Assistance with admission procedures
- Assistance with admission websites and articulation
- Annual Transfer Day/College Night with over 60 four-year colleges and universities represented

**CENTER FOR INTERNATIONAL AND UNDOCUMENTED STUDENTS (CIUS)**

**MAILING ADDRESS:**  
International Student Program  
435 College Avenue  
Modesto, CA 95350-5800, USA

The CIUS provides specialized services, activities, and support to MJC’s international New American and undocumented students. Services such as admissions assistance, academic and personal counseling, orientation, immigration advising, cultural programming, International Club advising, and more, are all part of this program. A special Orientation program is arranged for new international students upon arrival to MJC.

Modesto Junior College welcomes qualified international (non-immigrant) students to its academic, vocational and
technical programs. The college believes that the presence of international students enriches the academic environment for all of its students while providing a quality education for students from all parts of the world. The following is required for admission of all international non-immigrant applicants:

- International Student Application
- Certification of Finances
- Proof of English competency comparable to a 450 (133 computer based, 45-46 Internet based) TOEFL
- High School Graduation (official transcripts from all secondary and post-secondary institutions must be provided with English translations)
- Autobiographical essay

International students are required to pay non-resident tuition. For more information and/or application forms go to www.mjc.edu/international.

MJC and the CIUS also welcome undocumented students and provide support, mentoring, and referrals for this student group. Information is available on:

- Cal Dream Act
- AB 540
- BOG Fee Waiver
- DACA
- ELIC/ELW (Formerly ESL)
- And more

Contact CIUS Coordinator/Counselor for additional information.

**CHILD DEVELOPMENT EARLY CARE & EDUCATION PROGRAM**

West Campus, John Muir, Room 157, Phone: (209) 575-6343

Enrollment for ages 1½ to 5 years of age

Our unique Early Care & Education Laboratories, toddler and preschool, are instructional training sites for Child Development majors and are staffed by Faculty, the Child Development Specialist, student interns, and student teachers.

Our program offers a parenting course in addition to care and learning opportunities for children. Enrollment is open to children of staff, students and the community.

The philosophy of our child-centered program is built on the belief that “play” is essential to a child’s learning. There are six program policies that will guide our work: 1. Primary Care, 2. Small Groups, 3. Continuity of Care, 4. Individualized Care, 5. Cultural Continuity and 6. Inclusion of all children. An anti-bias approach is emphasized and curriculum is selected to support families in feeling included and respected. Each family brings their own culture and traditions which can be shared in our classroom! We believe that families are a child’s first and most important life-long teachers and we work to create partnerships with each family. A representative from each family is required to enroll each semester in the Community Education parenting course which is facilitated by the Child Development Specialist and/or instructor.

**College Clubs and Organizations**

**Megan Lee**
Campus Life & Student Learning
Administrative Specialist
Phone: 575-6704

**CLUBS & ORGANIZATIONS**

Campus Life & Student Learning are responsible for advising and coordinating activities for student clubs and organizations. Students are encouraged to broaden their horizons by participating in club activities. Clubs are organized to involve students in specialized fields of interest or service to the college and community.

MJC Clubs

- Administration of Justice
- Aikido Club
- Anatomy Club
- Anime Club
SERVICES ON CAMPUS

- Anthropology Club
- Astronomy Club
- Black Student Union
- Chi Alpha
- Child Development
- College Democrats
- College Republicans
- Electronic Music Club
- Freedom Forum
- Gamers Club
- Geology Club
- International Club
- Judo Club
- Leadership Experience (Formerly FYE)
- M.E.Ch.A.
- N.A.M.I. on Campus
- Phi Theta Kappa
- Philosophy Club
- Student Equality Organization
- Visual Arts Club
- Young Farmers

STUDENT REPRESENTATION FEE

The Student Representation Fee was amended in the California Education Code by Assembly Bill 2576 in late 1988. This fee is an optional $1 cost that can be implemented to serve any California Community College campus through a student body election. In April of 1993, ASMJC held a general student body election with the Student Representation Fee on the ballot. The fee passed and eight hundred forty-five (845) students voted in the election, and 563 were in favor of the Student Representation Fee.

The Student Representation Fee is collected with all other fees at the time of registration, and is deposited in a separate fiduciary fund. Funds collected are allocated to ASMJC and used to represent student concerns in government at local, state, and federal levels. A student may decline the Student Representation Fee for religious, political, financial, or moral reasons. The decline must be stated in writing.

ART GALLERY

The MJC East Campus Art Gallery hosts several original shows each year. Artwork from emerging and established artists, both local and international, are installed in the purpose built space. A wide range of art styles and media are represented including paintings, sculptures and mixed media pieces. MJC students and faculty exhibit their works annually. Students enrolled in the gallery operations class assist in the management and installation of the shows. Please visit mjc.edu/art for more information.

ARTS COMPETITION: THE CELEBRATION OF THE HUMANITIES

For over thirty years the Arts, Humanities and Communications Division and the Literature and Language Arts Division have sponsored an annual campus-wide student arts competition in eight major categories: Visual Arts, Photography, Theatre, Writing, Speech, Dance, Music, Film and Video. Awards are handed out at the popular performance ceremony held each April in the Performing and Media Arts Center Main Auditorium. A major student art exhibit is a highlight of this event. MJC students registered in the current summer, fall or spring term are eligible to enter in this exciting contest. Visit arts.events.mjc.edu/celebration/ for details.

ATHLETICS

Modesto Junior College offers 21 competitive sports programs (11 men’s and 10 women’s). MJC is a member of the Big Eight Conference in the following men’s and women’s sports: basketball, cross country, golf, soccer, swimming, tennis, track and field, and water polo. MJC also fields teams in the Big Eight in men’s baseball and women’s softball and volleyball.

Other Big Eight Conference members are American River College, Cosumnes River College, Diablo Valley College, Sacramento City College, San Joaquin Delta College, Santa Rosa Junior College, and Sierra College. MJC also competes in the Northern California Football Conference, North-Valley division in football, which includes Chabot College, Fresno City College, Laney College, San Joaquin
Delta College and College of Sequoias. In addition, MJC’s wrestling team competes in the Coast Conference.

Since 1938, MJC has hosted an annual statewide basketball tournament in December. It is the oldest community college invitational basketball tournament in the state.

**FORENSICS - COMPETITIVE SPEECH**

The Modesto Junior College Speech and Debate team has a proud tradition of national champions. The team competes with both colleges and universities in various debate formats and individual events. The competition occurs in state and national arenas. Visit mjc.edu/instruction/ahc/communication for more information about how to participate as a novice or experienced speaker.

**HONOR SOCIETIES**

**ΑΓΣ-ALPHA GAMMA SIGMA, UPSILON CHAPTER**

The Upsilon Chapter of Alpha Gamma Sigma, Inc., the California Community College Honor Society, is open to qualified MJC students. AGS fosters academic excellence through local and state scholarship opportunities.

AGS students build leadership skills, work together on community service activities and network with other motivated students.

Initial membership requires completion of 12 units in a maximum of 3 semesters with a cumulative grade point average of 3.0. First semester students with a cumulative high school GPA greater than or equal to 3.5 are eligible to become temporary members. Continuing membership requires a cumulative GPA of at least 3.0 and a current term GPA of 3.0 or above. Active participation in club activities is required.

Permanent membership is granted to students with greater than or equal to 60 units completed as well as a cumulative GPA of 3.5 or above who have at least one semester of previous membership, or with a cumulative GPA of 3.25 or above who have 2 or more semesters of membership in AGS. Membership information and applications are available in the Student Development and Campus Life Office or at www.mjc.edu/ags.

**ΦΘΚ PHI THETA KAPPA - BETA MU CHAPTER**

Phi Theta Kappa is present at MJC with the Beta Mu chapter. Phi Theta Kappa is the largest international honor society in American higher education with more than 1.5 million members and 1,200 chapters located on community college campuses throughout the fifty states, U.S. territories, Canada, and Germany. Phi Theta Kappa’s mission is twofold: 1) recognize and encourage the academic achievement of two-year college students and 2) provide opportunities for individual growth and development through participation in honors, leadership, service, and fellowship programming. New members will receive a membership pin, diploma seal, and transcript notation of membership. Members are automatically nominated for inclusion in the prestigious National Dean’s List biographical publication and are accorded the privilege of wearing the society’s gold stole and tassel at graduation. Chapter members will be eligible for Phi Theta Kappa scholarships and are automatically enrolled in the society’s transfer database, one of the nation’s leading scholarship engines that links four-year institutions offering scholarships to Phi Theta Kappa members. For more information, call Jim Beggs, program advisor at (209)-575-6164.

**ΣΧΗ-SIGMA CHI ETA-ALPHA KAPPA CHAPTER**

Sigma Chi Eta was established by the National Communication Association (NCA) in 2000 to recognize students at the community college level who are dedicated to enhancing their understanding of and contributions to the field of Communication. Members in Sigma Chi Eta are eligible to represent Modesto Junior College’s chapter at local, regional, and national conventions. These conventions offer a wealth of professional resources to help students achieve their academic and professional goals. All applicants must have completed at least 12 units at MJC (any subject) and have completed at least 12 units of Speech Communication courses at MJC or have completed at least 9 units of Speech Communication courses at MJC with at least 3 units currently in progress. Applicants must also have a cumulative GPA of at least 3.0 and a Communication Studies GPA of at least 3.25 while...
consistently displaying a commitment to the Communication field. Inductees receive lifetime membership, a certificate of membership, a lapel pin, and graduation honor cords. Applications are accepted during the first month of both the fall and spring semesters. For more information, contact Leslie Collins, faculty advisor, at collinsl@mjc.edu or (209) 575-6482.

**COLLEGE FACILITIES/ EVENTS/MAIL ROOM**

East Campus: Morris Building, Mailroom
Phone: (209) 575-6020

The college is a center for community functions of various kinds. College facilities are available for rent by recognized non-profit community groups when such use does not interfere with the regular educational program.

**COUNSELING AND GUIDANCE**

East Campus, Student Services Building, Room 226
West Campus, Yosemite Hall, Room 118
Phone: (209) 575-7799
Website: [www.mjc.edu/counseling](http://www.mjc.edu/counseling)

The counseling and guidance program assists students with decisions which affect their academic and career goals. First-time students should enroll in COLSK 100, GUIDE 109, 110, 111, 112, 116, 120 or STSK 78 during their first semester. These courses are designed to help students become better acquainted with the educational opportunities at MJC and develop a program of study that will help them attain their educational goals.

Counselors are available to assist students in identifying needs, assessing strengths, and overcoming barriers to fulfilling their educational objectives, including transfer to four-year colleges and universities. Counselors may also assist students in the selection of appropriate programs of study relative to their chosen objectives. Individual student-counselor conferences are available by appointment or walk-in. Visit the website or call for details.

In addition to a general counselor, the student can work with department advisors to help in program planning. Instructors are also available for individual advising within their academic discipline.

**DISABILITY SERVICES (DSPS)**

East Campus, Main Office & Alternate Media, Student Services Building, Room 112
Testing Center: Journalism Building, Room 160
Phone: (209) 575-6225, TTY: (209) 575-6863, Fax: (209) 575-6852
DSPS West Campus: Yosemite Hall, Room 205 (temporary location), Phone: (209) 575-7733

The Disability Services Program is a system of support services and classes (see IIS, Individualized Instruction & Services, courses for course descriptions) available to students with verified disabilities.

Disability Services is designed to meet the individual needs of the students, allowing them an equal opportunity to benefit from their educational experiences. Support may include assistance with planning programs, priority registration, testing accommodations, note-taking services, reader, sign language interpreting, assistive listening device, and with alternate media based on eligibility.

**PROVISIONS FOR STUDENTS WITH DISABILITIES**

Elevator keys are provided by Health Services to students with short or long-term physical disabilities.

Informational health insurance brochures are available through Health Services Offices. Students may be seen by a nurse on a drop-in basis at the Health Services Office. Student ID with current semester sticker is required for all services. Call for hours or log on to the Web site at [www.mjc.edu/healthservices](http://www.mjc.edu/healthservices).

**EXTENDED OPPORTUNITY PROGRAMS & SERVICES (EOPS)**

East Campus: Student Services Building, Room 210
Phone: (209) 575-6702, Fax: (209) 575-6250, TTY: (209) 575-6633
West Campus: Yosemite Hall Building, Room 152

The goal of EOPS is to promote and facilitate the college enrollment, persistence and retention of students with histories of educational and economic disadvantage.

EOPS provides students pursuing certificate, transfer, and associate’s degree programs of study, new student
orientations, assessment services, educational consultation and planning, academic advisement, career and life planning, pre-employment, and university transfer services. The program also provides retention services, supplemental tutoring, an "early alert" service and "priority registration" assistance, as well as economic support services including textbook vouchers, bus passes, UC and CSU application fee waivers, graduation cap and gown service and an emergency loan program. The Program also offers EOPS eligible, first-time college students the opportunity to participate in the Summer College Readiness Program, as well as the Bridge learning community in the Fall and Spring semesters of each academic year.

**FOOD SERVICES**
East Campus Cafeteria: Student Center
Vending Machines Available In The Student Center.
East Campus, Pirates Galley/Starbucks, Student Center

West Campus Cafeteria: Mary Stuart Rogers Student Learning Center
Vending Machines Available.
West Campus Convenience Store: Mary Stuart Rogers Student Learning Center

**HEALTH SERVICES**
Amy Yribarren, Director of Health Services
Lonita Cordova, Director of Mental Health
East Campus, Morris Memoral Building, Room 108
Phone: (209) 575-6037

West Campus: Yosemite Hall, Room 114
Phone: (209) 575-6360

The College Health Services Program was established to contribute to the success of the students by promoting physical and emotional well-being, with strong emphasis on preventative health care. Services are offered primarily on a drop-in basis.

Registered nurses are available to provide first aid, confidential counseling on communicable diseases, family planning, nutrition, exercise and weight management, and all aspects of personal health. Health Services provides vision and hearing screening, blood pressure monitoring, tuberculosis screening, pregnancy tests, and immunizations. Referrals can be made to local community providers as needed including personal and mental health counseling. Non-prescription medications are available for minor aches, pains, colds, sore throats, allergies, and upset stomachs, as are pamphlets and brochures.

In case of illness, your Health Services nurse can provide care in the form of first aid and/or referral service including an appointment to see a physician on campus at no cost. A cot is available for short rest periods at various times during the semester.

In case of injury on campus when the college is in session, or in any college-related activity, students should contact Health Services for information about student insurance coverage.

**ADDITIONAL CONFIDENTIAL SERVICES INCLUDE:**

**DOCTOR CLINIC:** A doctor is scheduled to be on-campus weekly. Appointments are scheduled after receiving a referral from the nurse.

**STANISLAUS COUNTY PUBLIC HEALTH AND FAMILY PACT:**
Provides family planning, and some STD screening once a week.

**MENTAL HEALTH SERVICES:** Referral for counseling is available for students expressing the need for minor mental health concerns.
Library & Learning Centers
(L & LC)

East Campus, Library & Learning Center building
Phone: (209) 575-6346

West Campus, Yosemite 235
Phone: (209) 575-6676

Jillian Daly
Dean of Literature and Language Arts,
Library and Learning Resources
Library & Learning Center, Room 114
Phone: (209) 575-6644

Sheri Lima
Library & Learning Center Manager
(209) 575-6651

Administrative Support Staff: Kimberly Schrader, Administrative Secretary

Faculty: Iris Carroll, Susan Cassidy

Support Staff: Roland Bernard, Christian Cavalho, Cheryl Chavez, Alice Giagou, Mary Beth Gish, Allan Jaramillo, Jacqueline Jordan, Prasad Mathai, Todd Mathias, Linda Occhipinti, Yia Vang, Manuel Vargas

ABOUT THE LIBRARY

Library services are located on the East and West campuses and can also be accessed through the MJC Library & Learning Center website. The library staff welcomes questions and is happy to help users access and use the many library resources available to them.

The library’s collection includes books, magazines, newspapers, journals, DVDs, eBooks, and a variety of online research databases. MJC students have access to Columbia College Library materials via the library’s intercampus loan service, and students can obtain research materials from non-YCCD libraries using the library’s interlibrary loan service.

Campus library services include individual reference services, class instruction on library research methods, research workshops, copy machines, study space for individuals and groups, laptop checkout, and course textbook reserves. Off-campus library services include access to article databases, subject-specific research guides, and eBooks. Guided research help is available through online tutorials, and by working with librarians via telephone, chat, text or email. To access library resources off campus, users need to log in using their student ID number and six-digit birth date.

All students, faculty, and staff, as well as college retirees, have full library privileges. MJC alumni and Library Friends can pay the $20 annual membership to the Friends of the MJC Library; this grants them borrowing privileges.

LIBRARY INSTRUCTION

The library offers a variety of learning opportunities to support the information competencies applicable to college-level research and lifelong learning. Students can participate in curriculum-specific instructional sessions arranged by their instructors, attend research workshops, or enroll in a formal library research course.

ABOUT THE LEARNING CENTERS

The Learning Centers welcome students who seek to be successful in their courses. Tutors assist students with course assignments and in learning study skills that will improve their overall academic performance.
SERVICES ON CAMPUS

COMPUTERS, PRINTERS, COPIERS, SCANNERS
The Library & Learning Centers have hundreds of computers students can use for academic work. All computers offer full internet access and Microsoft Office. Printing is available in black-and-white or color; copies are paid for with a GoPrint card. Photocopied pages cost $.10¢ to $.30¢ apiece. Scanning documents to a USB drive is free. Staff and student aides are available to assist and answer questions.

WRITING CENTERS
At the Writing Center, students get the support they need to improve their writing skills. Tutors will help with any writing-related task for any subject. They help students understand their assignment, gather ideas, focus on the topic, and organize the paper.

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) CENTER
The STEM Center is located on West Campus in YOS 235. Math and Science tutors are available to help students understand homework as well as course concepts. In the STEM Center, students can also check out anatomy models, microscopes, laptops, and calculators.

Math and science tutors are also available to help students in the East Campus Learning Center.

ALL OTHER TUTORING
The Learning Centers house all other tutoring, including subjects such as speech, history, accounting, anthropology, psychology, and foreign languages. If students do not see their courses listed for tutoring, they can request a tutor from our staff.

SUPPLEMENTAL INSTRUCTION (SI)
Supplemental Instruction (SI) is a series of weekly review sessions for students taking historically challenging courses. SI is offered to any students who want to improve their understanding of course material and earn higher grades.

STUDY ROOMS
Group study rooms are available for student reservations in both the East and West campus Library & Learning Centers, and are equipped with flat screen monitors and white boards. A large workshop room is available by reservation on both campuses when not in use for the Library’s research workshops.

MARY STUART ROGERS
STUDENT LEARNING CENTER
(WEST CAMPUS)
The Mary Stuart Rogers Student Learning Center includes: An ASMJC office, cafeteria, convenience store, TV lounge, game room, computer lab and multipurpose rooms. You will also find an ATM machine, coin exchange machine, vending machines, and video games.

MUSIC PERFORMANCE
The college's music department has deep and long standing roots in the surrounding community. Instrumental performance opportunities include Guitar Orchestra, Community Orchestra, Symphonic Band, Community Concert Band and Jazz Bands plus brass, percussion, woodwind, string ensembles and electronic music. Vocal performance opportunities include Masterworks Chorus, college choirs and musical theatre productions. Elementary, intermediate and advanced piano, organ, guitar, instrumental, and voice classes are available to music students. Students who desire to transfer as music majors to a four-year institution are strongly encouraged to contact a faculty advisor early in their first semester of study at the college. Please visit mjc.edu/arts for current concert performance descriptions and schedules.

SUCCESS PATHWAYS CENTERS
Eva Margarita Munguía, Director of Access, Retention, and Student Success
East Campus, Student Center Room 2
Phone: (209) 575-6211
Email: munguiae@mjc.edu

Under the Student Success and Support Program Plan at Modesto Junior College, the Success Pathways Centers first opened in fall 2016 to support students in stronger, more connected ways.

Centers on each campus offer core services on a drop-in basis and in a workshop style atmosphere. Students will be able to receive multiple services that include orientation,
SERVICES ON CAMPUS

assessment services, educational plans, and other elements to be successful as an MJC student. Centers include computer labs and assistance for students to complete core services online.

Counselors and success specialist's work collaboratively in the pathways centers to ensure high quality of services are given to all MJC students. Drop in counseling services (personal, academic, career, transfer) are available daily at the pathways centers on both campuses. Scheduled appointments are also available.

**Pathway Center Locations and Hours:**

East Pathways Center: Student Services Building, Room 128
West Pathways Center: Yosemite Hall, Room 125
*Coming soon to Yosemite Hall, Room 118
Phone: (209) 575-6789
Hours: M-T 8:00 AM to 7:00 PM, and Fridays, 8:00 AM to 5:00 PM

**STUDENT ACTIVITIES CENTER (EAST CAMPUS)**

The East Campus Student Center is the focal point of student activity. It includes: Bookstore, Cafeteria, Career Development & Transfer Center, Student Activities Center, Student Lounge, and the Student Success Hub.

**STUDENT ACTIVITY STICKER**

The Student Activity Sticker is an optional fee where students purchase a $5 benefits sticker which is placed on the back of their ID Card. The special sticker will afford you special discounts including:

- Discounts from local business
- Discounts at campus events and activities
- Access to ASMJC events and services.

**STUDENT ID CARDS**

East Campus, Student Center
Phone: (209) 575-6700
ID Card Hours: M-Th 8:00 AM to 5:00 PM, and Fridays, 8:00 AM - 12:00 PM
West Campus, Mary Stuart Rogers Learning Center
Phone: (209) 575-7991
ID Card Hours: Mon.-Thurs., 8:00 AM - 9:00 PM

Students should carry their ID cards to enhance campus safety and security. Students may purchase a $5 benefits sticker to be placed on the ID card for special discounts with local services and activities. ID cards can be made on EITHER CAMPUS DURING THE OFFICE HOURS ABOVE.

**STUDENT LEADERSHIP**

Bryan Justin Marks
Associate Dean
Campus Life & Student Learning
East Campus: Student Center
Phone: (209) 575-6700

West Campus: Mary Stuart Rogers Student Learning Center
Phone: (209) 575-7992

The Campus Life & Student Learning program offers opportunities for students to develop leadership skills, prepare for civic responsibility, explore diverse cultures, and build a strong sense of college community. The program reflects the needs and interests of students. The program is divided into the following areas:

**STUDENT GOVERNMENT (ASMJC)**

Alejandra Chacon
ASMJC Faculty Advisor
Student Activities Center
East Campus Student Center
Phone (209) 575-6479

The Associated Students of Modesto Junior College (ASMJC) is the official representative student body of Modesto Junior College. Student Government officers and senators must have a 2.5 GPA and have completed at least nine units to meet eligibility requirements. ASMJC
is completely student-funded, student-elected, and student-regulated, functioning within the framework of policies adopted by the Yosemite Community College District Board of Trustees. ASMJC is the primary forum through which student concerns are channeled. Since most major decisions made at Modesto Junior College affect students, their input has become increasingly relevant. ASMJC is recognized as the “student voice” by faculty and administration.

ASMJC is also responsible for planning, budgeting, and coordinating campus activities for student enjoyment outside of the classroom. Activities include free concerts, field trips, cultural events, and leadership conferences. ASMJC introduces students to a diverse calendar of events for their enjoyment and leadership development.

STUDY ABROAD RESOURCES
The Learning Abroad Library (LAL) housed in the International Center, serves as a resource for students, faculty, and staff who desire a study, work, or travel experience beyond the borders of the United States. For more information contact the International Student Program at (209) 575-6463 or (209) 575-6012.

THEATRE AND DANCE PRODUCTIONS
MJC Theatre productions have been popular community events since the early years of the college. Each season the department produces four to six productions including classic dramas, Shakespearean plays, comedies and Broadway style musicals. Shows are produced in new state-of-the-art facilities including a 796 seat proscenium theatre, a 74 seat Little Theatre and a 100 seat Black Box Theatre. Students participate in all aspects of the theatre arts with academic credit available in acting, lighting, costume and scenery production techniques. Visit mjc.edu/theatre for information about auditions and performances.

The Dance department produces three concerts each year and celebrates modern, jazz, ballet and hip-hop styles. Dance students are encouraged to learn to choreograph their own works using student and community dancers to communicate or express a vast range of artistic impressions. Students travel to the annual American College Dance Festival to take classes and perform with movement professionals from all over the world. Visit mjc.edu/dance for more information.

TRIO PROGRAMS
Aurelia Gonzalez
Director of Trio Pre-College Programs
East Campus: Morris Memorial Building, Room 112
For Trio/Educational Talent Search: (209) 575-6743
For Trio/Upward Bound: (209) 575-6743

TRIO/EDUCATIONAL TALENT SEARCH
TRIO/Educational Talent Search (ETS), funded by the U.S. Department of Education, is geared to assist students from disadvantaged backgrounds and prepare them to succeed in higher education. The MJC TRIO/ETS Program serves over 700 students from Hanshaw Middle School, Mark Twain Junior High, Elliot Alternative Education Center, Modesto and Downey High Schools. A variety of academic, career, financial/scholarship, college admissions, and cultural activities are available to program participants. For more information, please contact the TRIO/ETS office at (209) 575-6743 or visit us on the MJC East Campus in the Morris Building, Room 112.

TRIO/UPWARD BOUND
TRIO/Upward Bound (UB), funded by the U.S. Department of Education, assists low income and/or first generation high school students by providing them with the opportunities to succeed in their precollege performance and in their higher education pursuits. Upward Bound offers a comprehensive program of intervention activities designed to generate the skills and motivation necessary for success in high school and in college. The program serves 125 students from Patterson, Riverbank, Davis, Modesto, Johansen and Ceres High Schools. Upward Bound provides workshops, presentations, tutoring, stipends, field trips, Saturday Academies, and a six week Summer Academic Program with residency at a local university. For more information please contact the TRIO/Upward Bound Program office at (209) 575-6743 or visit us on the MJC East Campus in the Morris Building, Room 112.
TRIO STUDENT SUPPORT SERVICES
Claudia Ramirez
Counselor/Coordinator (Project Director)
East Campus, Morris Building, Room 107
Phone: (209) 575-6189
Website: www.mjc.edu/TRIOSSS

The TRIO Student Support Services program, funded by the U.S. Department of Education, is designed for first-generation and low-income college students to promote student success, retention, graduation and transfer to a four-year college or university. The TRIO Student Support Services program provides innovative academic and supportive services specifically designed to meet the needs of transfer students. Program services include: academic and personal counseling, tutoring services, academic portfolios, cultural activities, college and university campus visits, information about financial aid and scholarships, career advising, and workshops to develop and enhance academic and personal skills.

VETERANS’ RESOURCE CENTER
East Campus: Student Services Bldg, Room 116
Phone (209) 575-6670
Website: www.mjc.edu/vrc

The Veterans’ Resource Center (VRC) is an extension of the MJC Veterans Services office. The VRC has been established as a place for veteran students to connect and support one another. The VRC staff links veterans with campus and community services. The staff also educates the campus community on supporting our veterans as they reacclimate to civilian life and adjust to the college setting.

The Veterans Resource Center is the second of two offices in the MJC Veterans group. Academic resources, information about veteran programs and a lounge with computers is available for veterans and their family. The VRC staff additionally educates the campus community in supporting veteran students in their pursuit of reintegration and academic excellence.
Planning Your Education at MJC

ACHIEVING YOUR GOALS
We all have unique interests and goals. You may be attending Modesto Junior College for any number of reasons. MJC offers courses in an array of disciplines that can prepare you for skilled trades, specialized careers, job advancement, and transfer to four-year colleges or universities to further your education. Your goals will be directly influenced by the courses and programs you choose to complete while at MJC. It is important to keep your goals in mind at all times when selecting classes and programs and to remain informed about requirements specific to your goals.

GUIDANCE CLASSES: ESSENTIAL TO PLANNING
You may already know what you want to accomplish while enrolled at MJC, or you may be trying to explore your options and may be unsure of what is necessary to reach your goals. MJC offers Guidance classes which are designed specifically to help you identify your goals and to plan accordingly. Guidance classes are taught by MJC counselors who are informed about education and career options that await successful MJC students. The purpose of Guidance courses is to assist you in reaching your goals as quickly as possible.

COUNSELING SERVICES
Martha Robles, Dean of Counseling & Student Learning
MJC East Campus, Student Services Building Room 226
Phone: (209) 575-6080
MJC West Campus, Yosemite Hall Room 115
Phone: (209) 575-7799
Website: www.mjc.edu/counseling
EDUCATIONAL PLANS

An Educational Plan is developed with a counselor to provide you with a map that lists courses and support services that are required or recommended for successful completion of your goals. It is to your advantage to develop an Educational Plan as soon as possible. Guidance courses offered by the Counseling Center are designed to assist students in developing Educational Plans. A Guidance course is also required for graduation. All students should have an Educational Plan by the time they have earned 15 units. If a student is undecided as to his/her goal, a counselor can provide timely and updated information to help the student choose a realistic goal.

CHOOSING A GOAL

MJC students usually choose between two major pathways—to receive specialized job training, or to complete some college-level coursework at MJC and then transfer to a college or university to earn a baccalaureate (bachelor’s) degree. There are many paths students may take to achieve these goals. MJC counselors are in place to help students determine what pathway is best for them, and how to successfully progress on those pathways.

DEGREES, CERTIFICATES, AND SKILLS RECOGNITION AWARDS

Regardless of what you choose to accomplish at MJC, you can take proof of your hard work with you in an award. MJC offers awards showing educational achievement in an array of academic or vocational areas (See “Degrees, Certificates, and Skills Recognitions Offered at MJC” on page 104 for a list of awards offered at MJC.) If you are hoping to apply skills and knowledge to the job market once you have finished at MJC, having proof of your accomplishments can be an asset.

Associate's degrees are awards that are more rigorous than certificates, because—in addition to concentrated study in a specific skill or knowledge area—they require coursework in an array of disciplines to broaden your learning experience and strengthen your critical thinking skills. This is referred to as General Education or GE. As an associate's degree candidate, you will complete one of three General Education patterns, MJC-GE, CSU-GE, IGETC.

- Associate degree majors are a specific collection of courses designed to give you more knowledge or mastery in a specific subject matter. Some of these majors are designed to help you prepare for transfer to a baccalaureate degree program at a four-year college or university.
- Associate degree emphases allow you to select from a list of courses within an area. These programs, with the exception of the General Studies program, are designed to help you prepare to transfer to a baccalaureate degree program at a four-year college or university.

Skills Recognitions are locally recognized awards which indicate that you have received training needed by employers in our community, but completion of a Skills Recognition does not appear on your transcript. Record of completion will be stored in the MJC Records Office.

Certificates of Achievement are state-approved and show that you have successfully completed one or more courses in a targeted career or skills area. Completion of a certificate of achievement will appear on your transcript.
Job Training

Students can receive job training for many careers or vocations at MJC. Vocational faculty at MJC meet with local business owners to ensure that MJC courses provide the knowledge, skills and abilities essential to many area businesses. MJC offers vocational programs with degrees and/or certificates of achievement in the following areas:

- Accounting
- Administration of Justice
- Agriculture
- Agriculture, Sales and Service
- Animal Science
- Autobody
- Automotive
- Automotive Technology
- Bookkeeping
- Child Development
- Computer Graphics
- Computer Networking
- Computer Programming
- Electronics Technology
- Fire Science
- Floristry
- Heavy Equipment
- Human Services
- Industrial Electronics
- International Business
- Irrigation
- Landscape and Park Maintenance
- Logistics & Supply Chain Management
- Marketing
- Medical Assisting
- Nurse Assistant
- Nursery-Production
- Nursing
- Office Administration
- Plant Science
- Professional Selling
- Records Management
- Respiratory Care
- Retail Management
- Sheet Metal Fabrication
- Supervisory Management
- Veterinary Technician
- Welding

Transferring to the CSU System

CALIFORNIA STATE UNIVERSITY SYSTEM

The California System of State Universities and Colleges provides upper-division educational programs for California community college transfer students. Students can select from the following campuses:

- California Maritime Academy (S)
- California State Polytechnic University, Pomona (Q)
- California State Polytechnic University, San Luis Obispo (Q)
- California State University, Bakersfield (S)(F16)
- California State University, Channel Islands (S)
- California State University, Chico (S)
- California State University, Dominguez Hills (S)
- California State University, East Bay (Q)
- California State University, Fresno (S)
- California State University, Fullerton (S)
- California State University, Long Beach (S)
- California State University, Los Angeles (S)(F16)
- California State University, Monterey Bay (S)
- California State University, Northridge (S)
- California State University, Sacramento (S)
- California State University, San Bernardino (Q)
- California State University, San Marcos (S)
- California State University, Stanislaus (S)
- Humboldt State University (S)
- San Diego State University (S)
- San Francisco State University (S)
- San Jose State University (S)
- Sonoma State University (S)

(S) = SEMESTER SYSTEM; (Q) = QUARTER SYSTEM

All the campuses of the California State University welcome applications from transfer students. If you complete college units after the summer following graduation from high school, you are considered a transfer student. The number of units you have completed at the time you enter a CSU determines the admission standards that will apply to your application. It is important to identify which admission requirements apply to you. If you will have at least 60 semester or 90 quarter transferable units completed by the time you enter a CSU, you are considered an upper-division applicant.

Students planning to transfer to a CSU should plan a program to meet the admissions and graduation requirements of the specific institution they plan to attend. They should also select courses that prepare them for upper-division study in their major or fulfill recommended general education requirements. Transfer admission eligibility is based...
on transferable college units (courses numbered 100-299 at MJC) and/or high school record(s) and test scores. Each CSU campus has its own requirements for admission and junior standing.

**UPPER DIVISION TRANSFER ADMISSIONS REQUIREMENTS**

Transfer students are eligible for admission with junior status with 60 or more transferable semester units (90 quarter units) if they:

1. Maintain a college GPA of 2.00 or better (2.40 for non-California residents) in all transferable college units attempted.
2. Are in good standing at the last college or university attended, i.e., eligible to re-enroll.
3. Will complete prior to transfer at least 30 semester units (45 quarter units) of general education courses which include the Golden Four: Oral Communication, English Composition, Critical Thinking, and College Mathematics, with grades of "C" or better in each of the 30 units. The Golden Four categories appear on the CSU-GE Transfer Pattern as Areas A1, A2, A3, and B4.
4. It is highly recommended that students complete additional general education units that comprise the total CSU general education pattern of 39 units.

Please be advised that these are minimum entrance requirements and that they do not guarantee admission to any of the 23 CSU campuses. Many CSU campuses are currently requiring completion of all general education, as well as completion of all lower division major preparatory course work offered at the community college you are attending. GPA requirements will vary with the applicant pool and majors you are pursuing.

The CSU provides California Community College transfers with three systemwide options for fulfilling CSU lower division general education requirements: CSU General Education (GE) Breadth and the Intersegmental General Education Transfer Curriculum (IGETC), and for those applicants pursuing a high-unit major such as engineering, some math-based fields, science, or other technical majors, GE Breadth for STEM Majors. You can explore these programs and discuss with your college counselor which program is best for you.

If you are pursuing a high-unit major such as engineering, some math-based fields, science, or other technical majors, you will need to work closely with a counselor and your advisor to plan which classes you should take for upper-division transfer. CSU campuses do allow high-unit majors to take fewer general education courses before transfer. Just remember, ultimately you will need to meet the general education requirements in order to graduate from CSU.

**PLANNING FOR CSU WHILE ATTENDING MJC**

The following checklist will help you correctly apply, optimize the chances of attending the CSU of your choice and make sure you get credit for all applicable courses.

- **Meet with your MJC counselor or go to the transfer center** to discuss your transfer plans and to find out any additional information you need to know.
- **Use CSUMentor**, [http://secure.csumentor.edu/](http://secure.csumentor.edu/) a free online resource, to check the CSU’s admission requirements, application fees, tuition rates, testing, application dates and other commonly asked questions.
- **Refer to ASSIST**, [www.assist.org](http://www.assist.org) an online student-transfer information system, to find how the credits you have earned at one public California college or university can be applied when transferring to another school.
- **Check your final college transcripts** before sending them to the CSU. All transfer applicants are required to submit final college transcripts prior to enrollment in CSU classes to verify their successful completion of all admission requirements. If you did not complete the courses needed for admission, the CSU campus to which you apply may delay or cancel your admission or enrollment until you have successfully completed these requirements. (A few CSU campuses admit transfer students based on courses “in progress”; others do not.) More information is available at CSU Mentor.
- **Check with your California Community College Transfer Center** to see if you are eligible...
for a Transfer Admissions Agreement (TAA) or a Transfer Admissions Guarantee (TAG), which secures you a place at the selected campus specified in the agreement. MJC currently has a TAG agreement with CSU Stanislaus. Note: Students are urged to access www.csumentor.edu or www.assist.org to learn more about the CSU.

- Find out if the CSU campus(es) and the programs you are applying to are “impacted” and what supplemental admission criteria is being used. Several CSU campuses receive more applications during the initial filing period than can be accommodated; these campuses are designated “impacted” and may impose supplemental admission criteria for transfer admission. In addition, a number of CSU campuses also have programs or majors that are impacted, which requires them to impose more selective admission criteria in determining student eligibility. For more information, see the CSUMentor Impaction web page, http://www.csumentor.edu/planning/transfer/impaction.asp.

Source of information: http://www.csumentor.edu/planning/transfer/

ASSOCIATE DEGREES FOR TRANSFER (AA-T/AS-T)

California Community Colleges are now offering associate degrees for transfer to CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus, or to a program that is deemed similar to their community college major as long as the student meets all prescribed admission requirements. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Modesto Junior College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to http://www.calstate.edu/transfer/adt-search/search.shtml. Current and prospective community college students are encouraged to meet with a counselor to review options for transfer and to develop an educational plan that best meets their goals and needs.

GE BREADTH FOR STEM MAJORS

Students pursuing certain Associate Degrees for Transfer (ADT) may be eligible to take GE Breadth for STEM, deferring two lower division GE courses until after transfer. GE Breadth for STEM is applicable only to majors in which the Transfer Model Curriculum explicitly indicates the availability of the option. At this time, the AS-T in Biology and AS-T in Chemistry are the only two ADTs to qualify to use the IGETC or CSU GE Breadth for STEM. California Colleges preparing a “CSU GE Breadth for STEM” certification as part of an Associate Degree for Transfer should ensure that the student has completed:

- All courses in Areas A, B, and E of the traditional GE Breadth curriculum; and
- One course in Area C1 Arts and one course in Area C2 Humanities; and
- Two courses in Area D from two different disciplines.

Details of each Transfer Model Curriculum are maintained and published at www.c-id.net.

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number associated with a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a another college offers a course with the same C-ID as an MJC course, i.e., C-ID COMM 110, students can be assured that the MJC C-ID COMM 110 course will be accepted in lieu of the other C-ID COMM
110 course at the other community college. In other words, the C-ID designation is used to easily identify comparable courses at different community colleges. So, for this reason, The C-ID numbering system is especially useful for students attending more than one community college. However, because there are differences in the ways those courses articulate for transfer, students should always go to www.assist.org to confirm how any course will be accepted and applied at a particular four-year college or university for the baccalaureate degree.

Because courses change over time, consequently, their C-ID approval status may be modified or removed. Students should always check with a counselor to determine how a community college's C-ID courses support their long-term educational goals.

Students should consult the ASSIST database at www.assist.org for specific information on C-ID course designations. An MJC counselor can help students interpret this information.

<table>
<thead>
<tr>
<th>C-ID</th>
<th>C-ID Course Title</th>
<th>MJC Course ID</th>
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<tbody>
<tr>
<td>ACCT 110</td>
<td>Financial Accounting</td>
<td>BUSAD 201</td>
</tr>
<tr>
<td>ACCT 120</td>
<td>Managerial Accounting</td>
<td>BUSAD 202</td>
</tr>
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<td>AG-AB 108</td>
<td>Agricultural Computer Applications</td>
<td>AGEC 225</td>
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<td>AG-AB 124</td>
<td>Agriculture Economics</td>
<td>AGEC 210</td>
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<td>AG-AS 112L</td>
<td>Dairy Cattle Industry / Dairy Cattle Science</td>
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<td>AG-EH 108L</td>
<td>Plant Materials and Usage 1</td>
<td>ENS 201</td>
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<td>AG-EH 112L</td>
<td>Plant Identification &amp; Usage 2</td>
<td>ENS 202</td>
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<tr>
<td>AG-EH 116L</td>
<td>Plant Propagation / Production</td>
<td>ENS 235</td>
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<td>AG-PS 120L</td>
<td>Introduction to Soil Sciences</td>
<td>NR 200 (3)</td>
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<td>AJ 110</td>
<td>Introduction to Criminal Justice</td>
<td>ADJIU 201</td>
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<td>AJ 120</td>
<td>Concepts of Criminal Law</td>
<td>ADJIU 203</td>
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<td>AJ 122</td>
<td>Criminal Court Process</td>
<td>ADJIU 202</td>
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<td>AJ 140</td>
<td>Criminal Investigation</td>
<td>ADJIU 212</td>
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<tr>
<td>AJ 200</td>
<td>Introduction to Corrections</td>
<td>ADJIU 235</td>
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<td>AJ 220</td>
<td>Juvenile Procedures</td>
<td>ADJIU 232</td>
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<tr>
<td>ANTH 110</td>
<td>Introduction to Biological Anthropology</td>
<td>ANTH 101</td>
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<tr>
<td>ANTH 115L</td>
<td>Biological Anthropology Laboratory</td>
<td>ANTH 105</td>
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<td>ANTH 120</td>
<td>Introduction to Cultural Anthropology</td>
<td>ANTH 102</td>
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<td>ANTH 130</td>
<td>Introduction to Linguistic Anthropology</td>
<td>ANTH 104</td>
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<td>ANTH 150</td>
<td>Introduction to Archeology</td>
<td>ANTH 130</td>
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<td>ARTH 100</td>
<td>Art Appreciation</td>
<td>ART 160</td>
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<tr>
<td>ART 110</td>
<td>Survey of Western Art from Prehistory through the Middle Ages.</td>
<td>ART 164</td>
</tr>
<tr>
<td>ARTH 120</td>
<td>Survey of Western Art from Renaissance to Contemporary</td>
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<td>Health, Safety and Nutrition</td>
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<td>GEOL 121</td>
<td>Earth Science with Lab</td>
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<td>Introduction to Kinesiology</td>
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<td>THTR 171</td>
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<td>THTR 173</td>
<td>Intro. to Stage Lighting or Lighting Design Fund</td>
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<td>THTR 174</td>
<td>Intro. to Stage Costume or Fund. of Costume Design</td>
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<td>Intro. to Stage Makeup or Stage Makeup</td>
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<td>THTR 191</td>
<td>Rehearsal and Performance in Production</td>
<td>THETR 133 or 134 or 135 or 136 or 139</td>
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<td>THTR 192</td>
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*Reflects MJC C-ID approvals through 3/2/2017 LSM/sp*
Transferring to the University of California System

The University of California (UC) has campuses throughout the state of California and have uniform entrance requirements and other common features. However, each campus is distinctive. Not all majors are offered on all campuses. Students should review the list of undergraduate colleges, schools, and majors available on each campus to determine which campuses will best support their educational goals. Students should meet with a counselor to discuss the advantages of the different UC campuses.

- University of California, Berkeley (S)
- University of California, Davis (Q)
- University of California, Irvine (Q)
- University of California, Los Angeles (Q)
- University of California, Merced (S)
- University of California, Riverside (Q)
- University of California, San Diego (Q)
- University of California, San Francisco (Health Sciences)
- University of California, Santa Barbara (Q)
- University of California, Santa Cruz (Q)

(S) = Semester system; (Q) = Quarter system

TRANSFERRING TO UC WITH ‘JUNIOR’ STATUS

UC’s minimum admission requirements represent the minimum academic standards transfer students must attain to be eligible for admission. Meeting the minimum eligibility requirements does not guarantee admission. Often, admission to UC campuses and their programs is extremely competitive and requires students to satisfy more demanding standards.

The vast majority of California Community College students transfer to the University with “junior” status. UC “junior” status admission requires:

1. 60 semester (90 quarter) units of UC transferable college coursework must be completed. No more than 14 semester/21 quarter may be taken as Pass/No Pass.
   - Completion of the 7 pattern requirements with a grade of C or better in each course by the end of spring term prior to fall enrollment
   - Two UC-transferable courses (3 semester/4–5 quarter units each) in English composition;
   - One UC-transferable course (3 semester/4–5 quarter units) in mathematical concepts and quantitative reasoning;
   - Four transferable college courses (3 semester/4–5 quarter units each) chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

   NOTE: Each course must be at least 3 semester units.

2. Earn at least 2.4 GPA in UC transferable courses (2.8 if you’re a nonresident). Some majors require a higher GPA for admission selection.

If a student satisfies the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring, he or she may satisfy part 2 of the transfer eligibility requirements.

In addition to meeting the minimum admission requirements, a student should adhere to any special application or screening procedures for the selected major or UC campus. Additional requirements for highly competitive majors can also be identified through articulation agreements (available at [www.assist.org](http://www.assist.org)) and campus General Catalogs.
PLANNING FOR UC WHILE ATTENDING MJC

Prospective transfer applicants should plan their MJC coursework carefully. Most UC campuses do not accept undeclared transfer students. That is why it is critical for students to choose a major early and to take all appropriate—and required—coursework. To earn 60 semester units before transferring, the student should select courses that meet the following:

- Meet minimum admission requirements for transfer,
- lower-division courses that prepare for upper division major coursework
- satisfy prerequisites for other courses that are required in their major, and
- fulfill recommended general education requirements

All courses students take to meet University requirements must be UC transferable.

Along with uctransfer.universityofcalifornia.edu, other information helpful to transfer students include UC’s admissions website (www.universityofcalifornia.edu/admissions), its publication Answers for Transfers (available on the website), and the campus General Catalogs, which can be found on the campus websites and www.ccctransfer.org. Community college UC Transferable Course Agreements and articulation agreements with UC campuses are also available online at www.assist.org. The UC campus admissions office also can offer information and assistance. Meet with your counselor or go to the Transfer Center to discuss your transfer plans and to find out any information you need to know.

TRANSFER ADMISSION GUARANTEE (TAG)

Six UC campuses (Davis, Irvine, Merced, Riverside, Santa Barbara, and Santa Cruz) offer guaranteed admission to California community college students who meet specific requirements. By participating in a Transfer Admission Guarantee (TAG) program, students receive early review of their academic records, early admission notification, and specific guidance about major preparation and general education coursework. For more information, see http://admission.universityofcalifornia.edu/transfer/guarantee/
INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of MJC courses prospective transfer students attending California Community Colleges may complete to satisfy the lower-division breadth/general education requirements at the University of California and the California State University. Visit http://www.assist.org/web-assist/welcome.html or http://ccctransfer.org for IGETC Standards, Version 1.7.

Students have the option to complete IGETC or specific lower-division general education requirements of the school/college at the campus they plan to attend. The University has an agreement with each California community college specifying which of its courses may be applied to each category of IGETC. All courses must be completed with a grade of C (not C-) or better. A grade of CREDIT or PASS may be used if the community college’s policy states that it is equivalent to a grade of C or better. MJC has established this policy.

IGETC is helpful to students who know they plan to transfer but have not yet decided upon a particular institution, campus or major. Certain students, however, will not be well-served by IGETC. Some majors - such as engineering or the biological, physical and natural sciences or technology or mathematics - do not recommend IGETC. They encourage applicants to complete prerequisites for their UC major before completing general education courses. Other majors may require or recommend you complete either IGETC or campus-specific general education requirements before you transfer. See IGETC for STEM to see if this is a possible option for you.

Completing IGETC does not guarantee admission to the campus or program of choice. However, completing the lower-division breadth/general education requirements — whether through IGETC or the campus-specific requirements — may be considered by the campus in selecting among qualified applicants.

Students who do not complete IGETC prior to transfer will be required to satisfy the specific lower-division general education requirements of the UC college or school they attend. California community colleges may grant partial certification of IGETC to students who are missing no more than two requirements. Neither of these courses may be in English composition, critical thinking or mathematics/quantitative reasoning. Students submitting partial IGETC certification should complete the missing requirements at either UC or a California community college as designated by their department. Students who have been granted partial IGETC certification should not return to the community college for a full certification.

A community college course can satisfy only one IGETC subject area even if it is listed on the IGETC in more than one area. The exceptions are courses that appear in IGETC: 6A and IGETC: 3B; these courses can be used to satisfy both areas. However, a single course may be counted toward IGETC and a major requirement. IGETC course credit may be earned for scores of 3, 4 or 5 on Advanced Placement (AP) exams or for scores of 5, 6, or 7 on International Baccalaureate (IB) exams. Visit the AP and IB sections of the MJC catalog for more information. Full or partial certification of IGETC completion is the responsibility of the last community college a student attends prior to transfer. Requests for IGETC certification must be made in the MJC Enrollment Services in the Student Services Building, East Campus.

UC CAMPUS-SPECIFIC IGETC CONSIDERATIONS

If you have completed substantial coursework from institutions outside the United States, consult a counselor to determine whether you should complete IGETC or the lower-division breadth/general education requirements at the campus you plan to attend.
BERKELEY: IGETC completion is acceptable for all majors in the College of Letters and Science and the College of Environmental Design. IGETC is not accepted for the Haas School of Business and the College of Engineering. IGETC does not fully satisfy lower-division requirements for College of Natural Resources and College of Chemistry majors. Note: You may find that you have to take fewer courses overall if you just focus on fulfilling a specific major’s lower-division requirements. Be sure to check with the college or visit the ASSIST website (www.assist.org) for more information.

DAVIS: All undergraduate colleges accept IGETC. However, B.S. degrees and high-unit majors often have many lower-division prerequisites; in these cases, IGETC is not recommended and the UC Davis general education pattern is the better choice.

IRVINE: All schools accept IGETC. However, selection by the campus is based on demonstrated academic achievement and preparation for the intended major.

LOS ANGELES: All schools accept IGETC. However, completion of IGETC is not required/encouraged for students applying to the School of Engineering; engineering students are instead encouraged to focus on lower-division major preparation prior to transfer.

MERCED: The schools of Engineering and Natural Sciences strongly discouraged IGETC but is accepted; students are encouraged to focus on lower-division major preparation prior to transfer. The School of Social Sciences, Humanities, and Arts recommends IGETC. Students are encouraged to complete as much lower-division major preparation as possible prior to transfer.

RIVERSIDE: Humanities, Arts and Social Sciences: IGETC is recommended. Natural and Agricultural Sciences: IGETC is not accepted. Engineering: IGETC is acceptable; some additional coursework may be required after enrollment. Business Administration: IGETC is required.

SAN DIEGO: John Muir, Earl Warren, Eleanor Roosevelt, Thurgood Marshall and Sixth Colleges: IGETC clears all freshman/sophomore GE requirements; some upper-division courses required after enrollment. Revelle College: IGETC is acceptable; lower-division GE’s may not be cleared. Additional coursework may be required after enrollment.

SANTA BARBARA: College of Letters and Science and College of Creative Studies: IGETC is acceptable. College of Engineering: Students are encouraged to focus on major preparation rather than general education, but may use IGETC to substitute for most general education requirements. However, some additional coursework may be required after enrollment to complete the depth requirement if not satisfied during IGETC certification. Students planning to transfer to UCSB into a major in engineering, computer science, biological or physical sciences, math or economics must be careful to complete lower-division major prerequisites to ensure competitiveness and make normal, timely progress through their major.

SANTA CRUZ: For majors in engineering and physical and biological sciences IGETC is not recommended. Students should ensure completion of freshman/sophomore courses for their intended major, as indicated in the UCSC Catalog and on www.assist.org. Consult the major preparation paths and assist.org to determine whether IGETC is a good option for you and what courses at your community college fulfill IGETC requirements.

Source: http://admission.universityofcalifornia.edu/transfer/index.html
IGETC FOR STEM

IGETC for STEM is a separate IGETC track available for students planning to major in science, technology, engineering, or mathematics. IGETC for STEM will allow students to concentrate on lower division math and science courses required for a STEM major. The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses that California community college students may complete to satisfy the lower-division breadth/general education requirements before transfer to the California State University and some colleges and majors at UC campuses.

As of Spring 2017, IGETC for STEM is a separate IGETC track available for students planning to major in science, technology, engineering, or mathematics. UC will accept IGETC for STEM only if:

- you’re earning an associate degree for transfer (ADT) at a California community college that offers IGETC for STEM as an option for those degrees AND
- the UC major program or college you’re applying to accepts partial IGETC certification.

Although IGETC for STEM is an option, you should prioritize completing major-preparation courses for the specific campuses and programs you’re considering.

Source: http://admission.universityofcalifornia.edu/glossary/igetc-for-stem.html

CERTIFICATION OF IGETC FOR STEM

Complete the following courses before transfer:

- All courses in Areas 1 (except 1C for UC-bound students), 2, and 5 of the traditional IGETC; and
- One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.

Complete the following courses after transfer:

- One remaining lower-division general education course in Area 3;* 
- One remaining lower-division general education course in Area 4;* and
- One course in Area 6 for UC-bound students who have not satisfied it through proficiency.*

*These deferred lower division courses must be replaced with calculus and/or science courses required by the major before transfer.

FOR CSU

If any specific AS-T degree allows IGETC for STEM Majors as its general education pattern, the specific courses that should replace the deferred lower division general education courses may be indicated on the Transfer Model Curriculum (TMC) for that discipline.

FOR UC

UC will accept IGETC for STEM if the UC school/college/major program to which the student transfers accepts partial IGETC certification. For information on the IGETC acceptance practices for each UC school/college/major program, see: http://admission.universityofcalifornia.edu/counselors/files/transfer-admission-matrix.pdf

FOR CSU AND UC

Alternatively, STEM students may complete the traditional IGETC. However, IGETC and IGETC for STEM majors may not be appropriate for those colleges or majors which prefer that transfer students follow a more prescribed lower-division curriculum.
Transfer to Private or Out-of-State Institutions

Students who plan to transfer to private colleges or universities outside the UC and CSU systems are advised to consult the catalog of the college to which they plan to transfer for specific lower-division requirements which may be completed at MJC. For assistance in planning a transfer program to private or out-of-state institutions, students should contact a counselor, or visit the MJC Career Development & Transfer Center.
### Degrees, Certificates, and Skills Recognitions Offered at MJC

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<td>Administration of Justice</td>
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<td>Adv. Heavy Equipment Technician</td>
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<td>Agriculture Business</td>
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<td>Agriculture-Sales, Service (C: Tech)</td>
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<td>Agricultural/Agriculture Science</td>
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<td>Art: Studio Arts</td>
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<td>Automotive Brakes &amp; Suspension</td>
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<td>Child Devt. Master Teacher</td>
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<td>Child Devt. Site Supervisor</td>
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<td>Child Devt. Early Interventionist</td>
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<td>Communication Studies</td>
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<td>Crop Science</td>
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<td>Elementary Teacher Ed</td>
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<td>Emergency Medical Technician (EMT)</td>
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<td>English</td>
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<td>Environmental Horticultural Science</td>
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<td>Irrigation Construction &amp; Installation</td>
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<td>Kinesiology (Formerly Physical Education)</td>
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<td>Landscape and Park Maintenance</td>
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<td>Music</td>
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<td>Nursing, LVN to ADN (RN)</td>
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<td>246</td>
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<tr>
<td>Welding Manufacturing Technology (Interdisciplinary)</td>
<td>C</td>
<td>246</td>
</tr>
<tr>
<td>Welding Pipe Welding</td>
<td>SR</td>
<td>247</td>
</tr>
</tbody>
</table>

### LEGEND
- AA: Associate in Arts Degree
- AAT: Associate in Arts Degree for Transfer
- AS: Associate in Science Degree
- AST: Associate in Science Degree for Transfer
- BS: Bachelor of Science
- GSE: General Studies Emphasis (Non-transfer)
- UPE: University Preparation Emphasis (for Transfer)
- C: Certificate of Achievement
- SR: Skills Recognition
Many students attend MJC to start their pursuit of an expansive college experience, often culminating in a bachelor’s degree, masters degree, doctorate, or other professional degree conferred by another institution.

By attending MJC you can complete courses that apply toward a bachelor’s degree granted by another institution. By following the University Preparation Pathway on page 105, you will be able to complete coursework that is not only applicable to an associate’s degree at MJC, but can also fulfill lower-division requirements for bachelor’s degree at UC and CSU, and some other schools in California.

TRANSFERABLE COURSES

Transferable courses are those MJC courses that will apply toward baccalaureate credit at the institution to which you plan to transfer. For CSU, all courses numbered 100-299 are considered transferable, while UC accepts some—but not all—100-299 courses. For more information on transferring and which MJC courses are UC or CSU transferable meet with an MJC counselor and visit www.assist.org. CSU and UC will accept a maximum of 70 transferable units completed prior to transfer.

GENERAL EDUCATION TRANSFER PATTERNS

MJC, California State University (CSU), the University of California (UC), and other colleges and universities have created a process through which community college students can complete requirements for bachelor’s degree while attending California Community Colleges. At MJC, two General Education Patterns (CSU-GE and IGETC) are in place to allow you to complete most, if not all “lower-division” general education breadth requirements for bachelor’s degree as an MJC student. The CSU-GE and IGETC patterns are lists of MJC courses that you can take to fulfill certain requirements of the CSU and UC systems.

Completion of either pattern will fulfill the general education requirement for an associate’s degree. Please note that completion of the IGETC pattern is not preferred for all schools and majors within the UC system. For the most current information, see 100, or refer to www.assist.org for the most current course statuses. Most importantly, you should meet with a counselor to help you choose the appropriate pattern and coursework for your target school.

CERTIFICATION OF GENERAL EDUCATION

After completing the IGETC or CSU-GE patterns, or the University Preparation Pathway, you will need to request that your transfer pattern coursework be certified by the Records Office, Student Services Building, Room 102. MJC General Education certification means that your transfer pattern coursework at MJC is officially recognized by the transfer institution as fulfillment of the corresponding General Education requirement(s) for the baccalaureate degree. Courses used for IGETC certification must be passed with a minimum grade of “C”, “P” or “CR”. For CSU-GE certification, Areas A1, A2, A3 & B4 (the Golden Four) must be passed with a “C”, “P”, or “CR”. Additional CSU Upper Division Transfer Requirements information is on page 92. If you do not have your MJC coursework certified, you can be held accountable for the target institution’s General Education requirements upon commencing your study at that institution. ◆
PLANNING YOUR EDUCATION

University Preparation PATHWAY 2017-2018

Earn an associate’s degree while preparing for a bachelor’s degree

Successfully complete* the following steps to earn an associate’s degree from MJC, while simultaneously satisfying lower-division general education requirements for bachelor’s degree at many universities throughout California. While satisfactory completion of these requirements does not guarantee admission to a specific college or university, it will demonstrate that you have satisfied many “lower-division” requirements in preparation for upper-division study. Enroll in a Guidance class or meet with a counselor so that you complete each step accurately and efficiently.

TO EARN AN ASSOCIATE DEGREE:

1. Complete 60 units in courses numbered 100 to 299, twelve (12) of which must be completed “in-residence” at MJC. All courses numbered 100-299 will transfer to CSU, while some 100-299 transfer to UC. Please note that not all transfer units are accepted by every university. Consult an MJC Counselor or [www.assist.org](http://www.assist.org) for information on transferable MJC courses. Only one degree may be awarded in any one program.

2. Earn an overall GPA of 2.0 or higher (C average) based on all work attempted in college courses numbered 50 to 399.

3. Complete the MJC Guidance and Activities Requirements* on page 114.

4. Fulfill the general education requirement* for the school you plan to attend by successfully completing the appropriate General Education (GE) Transfer Pattern (with a C or better in each course) as indicated below. Upon completion of the GE pattern you select, you will be eligible for a Certificate of Achievement in CSU-GE or IGETC from MJC. For more information, visit the Evaluations Office, Student Services Building, Room 226. Successful completion will also demonstrate that you have met or exceeded state-required competencies for reading, writing, and mathematics.

Do you plan to transfer to California State University?

Complete one of the following two patterns:

- CSU-GE Transfer Pattern (p. 117).
- IGETC Transfer Pattern (p. 119) - Follow CSU requirements.

Do you plan to transfer to the University of California?

Complete one of the following:

- IGETC Transfer Pattern (p. 119) - Follow UC requirements.
- Individual breadth pattern for the UC campus of your choice as it appears on [www.assist.org](http://www.assist.org).

Do you plan to transfer to a private or out-of-state college or university?

- Work with a counselor to choose and complete one pattern (CSU-GE or IGETC) that best fulfills lower-division requirements for the targeted school.

Do you plan to earn a bachelors degree in a "high unit" major or one that requires extensive lower-division preparation?

- Work with a counselor to determine whether the University Preparation Pathway is right for you. First, you will need to complete the Career and Technical Education Pathway (page 111) to earn an Associate’s degree from MJC.

5. Select and complete an associate degree major or a University Preparation emphasis:

- Associate’s degree* with Associate in Arts (AA) or an Associate in Science (AS) major: The associate’s degree with an AA or AS major will demonstrate that you have taken courses in many college disciplines in order to gain critical thinking skills, in addition to completing a series of courses in a focused subject area. Your final transcript will show that you have earned an AA or an AS in the chosen area. Please note that some AA and AS majors include more courses than the required lower-division preparation for bachelor’s degree at the targeted college or university, so they may not be effective for bachelor’s degree preparation. Please see a counselor to carefully select courses for MJC and your target institution. You may complete any AA or AS in this catalog. Students who complete the University Preparation Pathway with an AA/AS major will earn a degree in the major. For example the student who completes the University Preparation pathway who chooses to complete the AS major in Physical Science, will receive a degree that reads: “AS Degree: Physical Science.” Students who pursue AA-T or AS-T degrees need to follow the requirements for Associate Degrees for Transfer on page 107.

- Associate’s degree in University Preparation with an area of emphasis. Like the associate’s degree major, the emphasis will demonstrate that you have taken courses in many college disciplines in order to gain critical thinking skills. The emphasis, however, is a set of courses that you complete at MJC to prepare you for the major in which you plan to earn a bachelor’s degree. Courses in the emphasis are carefully selected to fulfill major requirements and to prepare you for your bachelor’s degree major at the transfer institution. For University Preparation emphases options, see page 104. Students who complete the University Preparation Pathway with an emphasis will earn an AA or AS degree in “University Preparation: Emphasis.” For example, a student who completes the University Preparation “Humanities” emphasis would earn a degree that reads: AA: University Preparation: Humanities.

6. Earn a grade of C or Better in every course completed for the area of emphasis or the AA/AS major.

7. Apply for your degree. The associate in arts degree (AA), associate in science degree (AS) and the certificate of achievement in CSU-GE or IGETC are not automatically awarded when you complete the requirements. You will need to file an Application for Associate’s Degree in the Evaluations Office (Student Services Building Room 226) after enrolling in courses for the semester in which you intend to graduate. Requirements may be completed during any semester or summer session. Please note the graduation ceremony is held only at the end of spring semesters. Certification of general education requirements for transfer: CSU and UC systems accept full certification or subject-area certification upon completion of lower-division GE requirements. When applying to the transfer institution and requesting MJC transcripts, students should request GE certification.

*Students who possess a baccalaureate or higher degree completed at a regionally accredited college or university will have satisfied general education and competency requirements including guidance and activities for AA or AS Degree.

(rev 01/15/08), Reaffirmed by the Curriculum Committee on 01/31/2012. Updated 02/16/2012 lsm
Associate Degree for Transfer  
*A Degree with a Guarantee.*

ABOUT THE ASSOCIATE DEGREE FOR TRANSFER

Many students attend MJC to start their pursuit of an expansive college experience, often culminating in a bachelor’s degree, masters degree, doctorate, or other professional degree conferred by another institution. Students complete courses at MJC and then transfer to a four-year institution where their MJC coursework can apply as credit toward a four-year baccalaureate degree. This is a very common practice for California community college students who want to earn an associate degree and then earn a baccalaureate degree.

Established in 2010, the Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746- 66749) guarantees admission to a California State University (CSU) campus for any community college student who completes a “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus.

Upon completion of the requirements for a ADT associate degree, students will earn an associate in science degree for transfer (AS-T) or an associate in arts degree for transfer (AA-T) in a specific major. At this time, many associate degrees for transfer are in development at MJC and twenty-four have been approved and are being offered.

ASSOCIATE DEGREES FOR TRANSFER AT MJC*

<table>
<thead>
<tr>
<th>Administration of Justice (A.S.-T)</th>
<th>Kinesiology (A.A.-T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (A.A.-T)</td>
<td>Mathematics (A.S.-T)</td>
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<tr>
<td>Art History (A.A.-T)</td>
<td>Music (A.A.-T)</td>
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<tr>
<td>Business Administration (A.S.-T)</td>
<td>Philosophy (A.A.-T)</td>
</tr>
<tr>
<td>Chemistry (A.S.-T)</td>
<td>Physics (A.S.-T)</td>
</tr>
<tr>
<td>Communication Studies (A.A.-T)</td>
<td>Political Science (A.A.-T)</td>
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<td>Computer Science (A.S.-T)</td>
<td>Psychology (A.A.-T)</td>
</tr>
<tr>
<td>Early Childhood Education (A.S.-T)</td>
<td>Sociology (A.A.-T)</td>
</tr>
<tr>
<td>Elementary Teacher Education (A.A.-T)</td>
<td>Spanish (A.A.-T)</td>
</tr>
<tr>
<td>English (A.A.-T)</td>
<td>Studio Arts (A.A.-T)</td>
</tr>
<tr>
<td>Geography (A.A.-T)</td>
<td>Theatre Arts (A.A.-T)</td>
</tr>
<tr>
<td>Geology (A.S.-T)</td>
<td></td>
</tr>
<tr>
<td>History (A.A.-T)</td>
<td></td>
</tr>
</tbody>
</table>

*Reflects CCCCO approved degrees as of 3/8/2017

ASSOCIATE DEGREES FOR TRANSFER VERSUS THE UNIVERSITY PREPARATION PATHWAY

Like the ADT, MJC’s University Preparation Pathway prepares MJC students to transfer. What distinguishes the ADT from the University Preparation Pathway is that the requirements for the ADT major have been developed with the collaboration of all California Community Colleges and California State Universities.

THE ASSOCIATE DEGREE FOR TRANSFER: A PATHWAY TO THE CSU

These Associate Degrees for Transfer (ADT) require completion of a minimum of 18 semester or 27 quarter units in a major or area of emphasis with a grade of C or better or a “P” (Pass) in every course completed in the AA-T or AS-T major as determined by each California community college, and an approved set of general-education requirements (CSU GE-Breadth or IGETC). Students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0.

If you have been awarded or are pursuing an AA-T or AS-T degree from MJC, you are guaranteed priority admission consideration to the CSU; however, the priority admission does not extend to a particular campus or program. To qualify, you must be conferred or be completing an approved Associate Degree for Transfer (AA-T or AS-T) at the time that you are applying to the CSU. You must submit your application for admission to CSU campuses for an open term by the published deadline, submit all requested transcripts and documents by published deadlines, meet CSU admission eligibility requirements for the programs to which you are applying and must comply with any other prescribed admission requirements.

If you apply and are admitted to a CSU program that has been deemed “similar” to the ADT you are awarded, you are guaranteed to complete the Baccalaureate Degree in the similar discipline within 60 semester (90 quarter) units as long as you successfully completes all of the required coursework without the need of repeating them or supplementing instruction with additional courses for minors or areas of emphasis. Some academic programs may require a performance evaluation, an audition, portfolio review or set specific academic progress requirements to maintain enrollment in the program. To maintain the guarantee of completing 60 semester (90 quarter) units, you must maintain continuous enrollment in the same academic major unless you have obtained an approved leave of absence from your campus. After your enrollment at the CSU campus begins, the guarantee is not transferable to another CSU campus.
Note: This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. [www.c-id.net](http://www.c-id.net)

**Source document:** [http://www.csumentor.edu/planning/transfer/associate_degree.asp](http://www.csumentor.edu/planning/transfer/associate_degree.asp)

**BENEFITS OF AN ASSOCIATE DEGREE FOR TRANSFER**
- Guaranteed admission to the CSU upon completion of the requirements for a TMC degree at Modesto Junior College.
- Only 60 units of transferable coursework are required for associate degree, with only 60 additional units required at the CSU for baccalaureate degree.
- Because the major requirements have been developed collaboratively by the faculty of the CSU and the California Community Colleges, coursework is guaranteed to transfer.
- No local requirements (like Guidance, Activities) are required to earn an associate degree.

**C-ID: THE BUILDING BLOCK OF THE TMC**
In order to facilitate the ADT, the community colleges created a statewide numbering system to commonly identify courses using the C-ID or Course Identification Numbering System. After a state-level review process, courses commonly offered at California Community Colleges can be given a C-ID.

For example, Reedley College offers an introductory marriage and family course as SOC 32: Courtship, Marriage, and Divorce: Family and Interpersonal Relationships. MJC offers an almost identical course, SOCI 125: Sociology of the Family. The state has attached a C-ID to both courses. In this case, it is C-ID SOCI 130 Introduction to Marriage and Family. Therefore, both Reedley’s and MJC’s courses are accepted as comparable.

C-ID will allow students to easily identify courses offered at different community colleges, and the use of the system is facilitating the development of consistent requirements for associate degrees by faculty of colleges statewide. For more information and a list of C-IDs, see p.94-96

**CERTIFICATION OF GENERAL EDUCATION**
After completing the IGETC or CSU-GE patterns, or the University Preparation Pathway, you will need to request that course pattern coursework be certified by the Records Office, Student Services Building, Room 102. MJC General Education certification means that your transfer pattern coursework at MJC is officially recognized by the transfer institution as fulfillment of the corresponding General Education requirement(s) for the baccalaureate degree. Courses used for IGETC certification must be passed with a minimum grade of "C", "P" or "CR". For CSU-GE certification, Areas A1, A2, A3 & B4 (the Golden Four) must be passed with a "C", "P", or "CR". Additional CSU Upper Division Transfer Requirements information is on page 92. If you do not have your MJC coursework certified, you can be held accountable for the target institution’s General Education requirements upon commencing your study at that institution.

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**Associate Degree for Transfer**

**A Degree with a Guarantee.™**

To Earn an Associate Degree For Transfer:

1. Complete 60 units in courses numbered 100 to 299, twelve (12) of which must be completed "in-residence" at MJC. All courses numbered 100-299 will transfer to CSU. Consult an MJC Counselor or [www.assist.org](http://www.assist.org) for information on transferable MJC courses. Only one degree may be awarded in any one program.

2. Earn an overall GPA of 2.0 or higher (C average) based on all work attempted in college courses numbered 50 to 399.

3. Fulfill the general education requirement* for the school you plan to attend by successfully completing the appropriate General Education (GE) transfer pattern requirements (with a C or better in each course) indicated below. Upon completion of the requirements, you will be eligible for a Certificate of Achievement in CSU-GE or IGETC from MJC. For more information, visit the Evaluations Office, Student Services Building, Room 226. Successful completion will also demonstrate that you have met or exceeded state-required competencies for reading, writing, and mathematics. Complete one of the following two general education patterns:
   - CSU-GE Transfer Pattern (p. 117)
   - IGETC Transfer Pattern (p. 119). Follow CSU requirements.

4. Select and complete an approved "Associate Degree for Transfer"

5. Earn a grade of "C or better" or a "P" in every course completed in the AA-T or AS-T Major.

6. Apply for your degree. Associate degrees are not automatically awarded when you complete the requirements. You will need to file an Application for Associate’s Degree in the Evaluations Office, in the Student Services Building, Room 226 after enrolling in courses for the semester in which you intend to graduate. Requirements may be completed during any semester or summer session. The graduation ceremony is held at the end of the spring semester.

7. Request GE Certification on your transcript. The CSU system accepts full certification or subject-area certification upon completion of lower-division GE requirements. When applying to the transfer institution and requesting MJC transcripts through Enrollment Services (Records), students should request GE certification.

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*Students who possess a baccalaureate or higher degree completed at a regionally accredited college or university will have satisfied general education and competency requirements including guidance and activities for AA/AS Degree.

Reaffirmed by the Curriculum Committee on 01/31/2012. Updated 02/16/2012 (Rev. 01/25/12 LSM)
General Education Pattern Reference Sheet

<table>
<thead>
<tr>
<th>MJC GE Pattern White Pattern</th>
<th>CSU GE Pattern Blue Pattern</th>
<th>IGETC Pattern Green Pattern</th>
<th>Use MJC Catalog and/or Catalog Addendum for the classes required for major</th>
<th>Use <a href="http://www.assist.org">www.assist.org</a> for the classes required for major</th>
<th>Guidance course and 2 units of Activities required</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA/AS</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>AA in General Studies with an Emphasis</td>
<td>Yes</td>
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<tr>
<td>AA/AS in University Preparation with an Emphasis</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>ADT (Associate Degree for Transfer) AAT/AST</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Transferring to CSU without an Associate Degree</td>
<td>No</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Transferring to UC or Private College or Out-of-State without an Associate Degree</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1. Upon completion of 15 units it is highly recommended for students to make an appointment with a counselor or enroll in one of the following courses: AG 115, Guide 109, 110, 111, 112, 116, 120, or SSk 78 to develop a comprehensive educational plan.
2. Courses used to meet the General Education requirements cannot double count to meet the requirements for the major.
3. Courses used to meet the major requirements cannot double count to meet the General Education requirements.
4. Students opting for an AA/AS in University Preparation degrees may choose to use either the CSU GE or IGETC to meet the General Education requirements.
5. Students will need to refer to both the MJC catalog and www.assist.org for classes they need for their major to graduate with a 2-year degree and to transfer to a CSU or UC.
6. Students opting for an ADT (Associates Degree for Transfer) may choose to use either the CSU GE or IGETC to meet the General Education requirements. Students pursuing an AST in Geology and/or an AST in Physics must use the IGETC pattern to meet the General Education requirements.
7. Students will use the MJC catalog and/or MJC catalog addendum for requirements for the major.
8. Students transferring to a CSU without an Associate’s Degree may choose either CSU GE or IGETC to meet General Education requirements.
9. IGETC used for all UC’s but may not be recommended for all UC majors. Check with a counselor. The CSU GE or the IGETC may work for some private and/or out-of-state colleges. There may be some colleges that prefer the IGETC.
10. Students pursuing high unit majors (i.e. Biology, Engineering, or Performing Arts) should consult with a counselor regarding GE completion.
11. www.assist.org only has information for CSUs and UCs. For students transferring to a private college or an out-of-state college please contact the school of your choice for more information on the major.
If you have visions of working in a skilled trade, occupation, or area in the community, you might consider the Career and Technical Education pathway. This educational pathway allows you to earn a Certificate of Achievement and/or an associate’s degree which will give you targeted instruction and hands-on training for employment. Either award you choose will prepare you for employment in the community.

ASSOCIATE’S DEGREE OR CERTIFICATE OF ACHIEVEMENT?
Your educational experience will vary depending on which award you target in the Career and Technical Education Pathway. The certificate requirements are designed to provide you a fast, immersive learning experience in a skilled trade or vocation. The associate’s degree in Career and Technical Preparation is geared to help you move swiftly through MJC’s general education requirements (MJC-GE) for an associate’s degree and to immerse yourself in learning a trade or vocation so that you have an associate’s degree and evidence of skills in a trade. Upon completion of your degree, you will not only have completed general education component, you will have considerable knowledge and skills in a specific area of study. This plan is most beneficial for individuals who would like to explore career opportunities upon earning their associate’s degrees, and who may not have plans to earn a bachelor’s degree.

CAREER OPTIONS
MJC provides an array of associate’s degrees and certificates of achievement that can prepare you for jobs in the community. Programs like nursing, welding, administration of justice, business administration, and dairy science are designed with input from local employers to give you the training local employers are seeking. For more information on vocational programs see “Degrees, Certificates, and Skills Recognitions Offered at MJC” on 104.

CHOOSING COURSES
Course numbers can tell you a great deal about the type of course you are completing. Courses numbered 50-399 will apply toward your associate’s degree if you are completing the Career and Technical Education pathway. The MJC-GE pattern includes courses numbered 50 and higher, whereas the Transfer General Education patterns only include courses numbered 100 to 299 for the purposes of transfer.

TYPES OF ASSOCIATE’S DEGREES
The Career and Technical Education pathway is unique in that it offers two types of Associate’s degrees; associate in science (AS) and associate in arts (AA). The AS degree requires more coursework in the major (minimum 30 units) and fewer electives to total 60 units for an associate’s degree. The AA degree requires a minimum of 20 units in the major, and therefore allows you to complete more elective units outside the major for the degree.

IS A BACHELOR’S DEGREE IN YOUR FUTURE?
If you think that you may want to pursue a bachelor’s degree at any point in the future, be sure to meet with a counselor to evaluate your goals. Not all courses completed for the Career and Technical Education Pathway will transfer to a four-year university. ◆
PLANNING YOUR EDUCATION

Career Technical Education 2017-2018 PATHWAY

Prepare for employment with an associate’s degree or certificate of achievement.

Successfully complete the following steps to earn a Certificate of Achievement or Associate’s degree from Modesto Junior College. Enroll in a Guidance class and meet with a counselor to ensure that you complete each step accurately and efficiently. You may earn a Certificate of Achievement and an Associate’s degree in many programs; however only one degree (AA or AS) can be awarded in any one program. To learn more about the Career & Technical Education pathway, see page 111.

Earn a Certificate of Achievement:

1. Select a Certificate of Achievement from the catalog and complete the requirements as listed.
2. Earn a grade of C or better in every course in the Certificate of Achievement
3. Apply for your Certificate. The Certificate of Achievement is not automatically awarded when you complete the requirements. File an application for Certificate of Achievement during the same semester in which you plan to finish requirements (Evaluations Office, Student Services Building, Room 226.)

Earn an Associate’s degree:

1. Complete 60 units in courses numbered 50 to 399. Twelve (12) units must be completed “in-residence” at MJC.
2. Earn an overall GPA of 2.0 or higher (C average) based on all work attempted in college courses numbered 50 to 399.
3. Demonstrate competence in reading, writing, and mathematics.*

   **READING:** Meet one of the following requirements:
   - Completion of the applicable General Education pattern (MJC-GE, CSU-GE, and/or IGETC) with a C average or better (2.0)
   - Completion of READ 184 with a C or better

   **WRITING:** Meet one of the following requirements:
   - Completion of ENGL 100 or ENGL 101 or equivalent course from another institution with a C or better
   - Score of 3, 4, or 5 on AP Exam: Language & Composition OR Literature & Composition

   **MATHEMATICS:** Meet one of the following requirements:
   - Eligibility for entrance into any 100-level MATH course through MJC Assessment Process
   - Score of 3, 4 or 5 on AP Exam: Calculus AB OR Calculus BC OR Statistics
   - Completion of MATH 89 or higher-level MATH course, or equivalent course from another institution with a grade of C or higher.
   - Score of 5 on IB Exam: Mathematics HL

4. Complete the MJC Guidance and Activities Requirements* as part of the 60 units required for associated degree. See page 114.

5. Fulfill the general education requirement* as part of the 60 units required for associated degree by completing the MJC-GE Pattern (see page 115) with a GPA of 2.0 or higher.

6. Complete a MAJOR or General Studies EMPHASIS from those listed in the catalog in which you plan to earn your degree:

   **Associate in Arts degree (AA):**
   - Complete requirements for any AA Major listed in the MJC Catalog. Your AA degree will be in that major.

   **Associate in Science degree (AS):**
   - Complete requirements for any AS Major listed in the MJC Catalog. Your AS degree will be in that major.

7. Earn a grade of C or Better for every course in the major.

8. Apply for your degree. The Associate in arts Degree (AA) and the Associate in science Degree (AS) are not automatically awarded when you complete the requirements. File an Application for Associate’s degree in the Evaluations Office, Student Services Building, Room 226, the same semester in which you plan to complete the requirements. Requirements may be completed during any semester or summer session. The graduation ceremony is held only at the end of the spring semester.

*Students who possess a baccalaureate or higher degree completed at a regionally accredited college or university will have satisfied general education and competency requirements including guidance and activities for AA or AS Degree.
# MJC Student Educational Plan

**Name:**

**W#**

**Counselor/Advisor:**

**Date:**

**Est. Completion Date**

**Ed Goal Change Date**

**Major Change**

**Catalog Rights**

---

## Educational Goal

- Career & Tech Ed AA/AS (non-transfer) – Major
- University Preparation
- AA-T or AS-T
- Certificate
- Transfer Major
- Transfer University

---

## Graduation Requirements

### General Ed.

- Met
- Not required for AA-T/AS-T

#### General Ed. Met

<table>
<thead>
<tr>
<th>Area</th>
<th>Met</th>
<th>General Ed.</th>
<th>General Ed.</th>
<th>General Ed.</th>
<th>Tentative Program</th>
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<td>D. 1 English Composition (3)</td>
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<td>ENGL 101 (3)</td>
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<tr>
<td>D. 2 Comm &amp; Anal Think (3)</td>
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<tr>
<td>E. Health Education (3)</td>
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<td>Term</td>
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</tbody>
</table>

### Major Requirements:

- Met

#### Major Requirements:

- Met

**Notes:**

- DO NOT CHANGE PART OF MAJOR

---

## Assessment Tests

- Met

## Basic Skills Needed

- Met

## Competency Requirements

- Met

---

## CAL State Univ.

- Met

## IGETC UC or CSU

- Met

---

## AA-T/AS-T/UEP/Transfer Prep for major refer to website.org

**Student Signature**

**Date**

**Counselor/Advisor Signature**

**Date**
PLANNING YOUR EDUCATION

MJC Guidance & Activities Requirements for Associate Degree
In Partial Fulfillment of the Requirements for Associate's Degree for 2017-2018

Students who plan to earn an associate's degree at MJC must complete the MJC Guidance & Activities Requirements*. By completing the Guidance Requirement, students will learn about requirements for graduation, various educational and career options, resources at MJC, as well as create an Educational Plan to ensure that courses taken at MJC are appropriate for their short and long-term goals. By completing the Activities Requirement, students will participate in courses that demonstrate creativity, collaboration, teamwork, and/or self-expression.

The following students are exempt from Guidance and/or Activities requirements:

- Students who possess a baccalaureate or higher degree conferred by a regionally-accredited college or university. By virtue of the degree they have satisfied general education and competency requirements including guidance and activities for the associate degree.
- Students who plan to earn an associate degree for transfer (AS-T or AA-T) at Modesto Junior College.
- Veterans or reservists who submit proof of U.S. military Basic Training receive two (2) units of activities. File copy of DD214 with MJC Veterans Office.

1. Guidance Requirement: Complete one course during first semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AG 115</td>
<td>Intro to Ag Educ &amp; Careers</td>
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<tr>
<td>GUIDE 109</td>
<td>Interm Student/Nw Amer Focus</td>
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<tr>
<td>GUIDE 110</td>
<td>Intro to College</td>
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2. Activities Requirement: Complete two (2) units

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<tr>
<td>AG 101</td>
<td>Leadership in Agriculture B</td>
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<td>ART 108</td>
<td>Ceramics</td>
<td>(3)</td>
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<tr>
<td>ART 109</td>
<td>Ceramics 2</td>
<td>(3)</td>
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<tr>
<td>ART 110</td>
<td>Ceramics 3</td>
<td>(3)</td>
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<tr>
<td>ART 121</td>
<td>Basic Drawing 2</td>
<td>(3)</td>
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<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
<td>(3)</td>
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<tr>
<td>ART 125</td>
<td>Color &amp; 3 D Fidtis Design</td>
<td>(3)</td>
</tr>
<tr>
<td>ART 129</td>
<td>Figure Drawing 2</td>
<td>(3)</td>
</tr>
<tr>
<td>ART 141</td>
<td>Sculpture 2</td>
<td>(3)</td>
</tr>
<tr>
<td>ART 142</td>
<td>Sculpture 3</td>
<td>(3)</td>
</tr>
<tr>
<td>ART 147</td>
<td>Painting 1 (in Acrylic)</td>
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<tr>
<td>ART 148</td>
<td>Painting 1 (in Oil)</td>
<td>(3)</td>
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<tr>
<td>ART 149</td>
<td>Painting 2</td>
<td>(3)</td>
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<tr>
<td>ART 158</td>
<td>Painting 3</td>
<td>(3)</td>
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<tr>
<td>ART 159</td>
<td>Mural Painting</td>
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<td>ART 173</td>
<td>Basic Digital Photography</td>
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<td>ART 175</td>
<td>Color Photography</td>
<td>(3)</td>
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<tr>
<td>CMGPR 284</td>
<td>Beginning After Effects</td>
<td>(3)</td>
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<td>COMM 105</td>
<td>Intergalactic Forensics</td>
<td>(3)</td>
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<td>DANCE 111</td>
<td>Modern Dance 1</td>
<td>(1)</td>
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<tr>
<td>DANCE 112</td>
<td>Modern Dance 2</td>
<td>(1)</td>
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<tr>
<td>DANCE 113</td>
<td>Modern Dance 3</td>
<td>(1)</td>
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<td>DANCE 114</td>
<td>Modern Dance 4</td>
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<tr>
<td>DANCE 121</td>
<td>Ballet 1</td>
<td>(1)</td>
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<tr>
<td>DANCE 122</td>
<td>Ballet 2</td>
<td>(1)</td>
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<tr>
<td>DANCE 123</td>
<td>Ballet 3</td>
<td>(1)</td>
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<tr>
<td>DANCE 124</td>
<td>Ballet 4</td>
<td>(1)</td>
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<tr>
<td>DANCE 131</td>
<td>Jazz 1</td>
<td>(1)</td>
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<tr>
<td>DANCE 132</td>
<td>Jazz 2</td>
<td>(1)</td>
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<tr>
<td>DANCE 133</td>
<td>Jazz 3 InternAdv</td>
<td>(1)</td>
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<tr>
<td>DANCE 134</td>
<td>Jazz 4 Advanced</td>
<td>(1)</td>
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<td>DANCE 141</td>
<td>Hip Hop</td>
<td>(1)</td>
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<td>DANCE 151</td>
<td>Movement for Perf Artists</td>
<td>(3)</td>
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<tr>
<td>DANCE 155</td>
<td>Fund of Choreography 1</td>
<td>(3)</td>
</tr>
<tr>
<td>DANCE 181</td>
<td>Dance Rhrsl &amp; Perf 1</td>
<td>(2)</td>
</tr>
<tr>
<td>DANCE 182</td>
<td>Dance Rhrsl &amp; Perf 2</td>
<td>(2)</td>
</tr>
</tbody>
</table>

*Reflects Curriculum Committee Guidance/Activities approvals effective Summer 2017
Revised 3/22/17_LSM/SP
The MJC-GE pattern constitutes a set of requirements that, when successfully completed, demonstrates that the student has completed the general education requirement for associate degree at MJC. Completion of the MJC-GE pattern does not satisfy requirements for transfer to UC or CSU. Students are strongly advised to enroll in a Guidance class and/or speak to a counselor to ensure that the MJC-GE pattern is right for their short and long-range educational goals. For more information see *Planning Your Education* on page 89 of the 2017-2018 MJC Catalog.

**Expected Learning Outcomes for General Education at MJC**

For students who complete MJC-GE, CSI-GE, or IE/TIC to fulfill GE requirements for the associate degree at MJC

**UPON COMPLETION OF AN ASSOCIATE'S DEGREE AT MODESTO JUNIOR COLLEGE, THE STUDENT WILL BE ABLE TO:**

Demonstrate proficiency in NATURAL SCIENCE by:
- Explaining how the scientific method is used to solve problems.
- Describing how scientific discoveries and theories affect human activities.

Demonstrate proficiency in SOCIAL AND BEHAVIORAL SCIENCE by:
- Describing the method of inquiry used by the social and behavioral sciences.
- Describing how societies and social subgroups have operated in various times and cultures.
- Analyzing the ways that individuals act and have acted in response to their societies.

Demonstrate proficiency in the HUMANITIES by:
- Demonstrating awareness of the various ways that culture and ethnicity affect individual experience and society as a whole.
- Demonstrating the ability to make well considered aesthetic judgments.

Demonstrate proficiency in LANGUAGE AND RATIONALE by:
- Demonstrating awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.
- Demonstrating critical thinking in the analysis and production of communication.
- Demonstrating the ability to find, evaluate, and use information in a variety of formats.

Demonstrate proficiency in HEALTH EDUCATION by:
- Describing the integration of the physiological and psychological human being.
- Analyzing the development of self and making plans for lifelong learning.
- Evaluating the impact of daily decisions on life and health.

**Area A. Natural sciences:** Complete a minimum of three (3) units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ANAT 125</td>
<td>Human Anatomy (4)(SU07)</td>
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<tr>
<td>AVEC 200</td>
<td>Intro to Animal Sci (3)</td>
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<tr>
<td>ANTHR 101^1</td>
<td>Biological Anthro (3)</td>
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<tr>
<td>ANTHR 105</td>
<td>Biological Anthro Lab (1)(F98)</td>
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<tr>
<td>AP 050</td>
<td>Elem Human Anatl-Phys (3)(F96)</td>
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<tr>
<td>AP 150</td>
<td>Integrative Anat and Phys (5)</td>
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<tr>
<td>ASTRO 151</td>
<td>Intro to Astro Lab (2)(SU12)</td>
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<tr>
<td>ASTRO 160</td>
<td>Intro to Modern Astro (3)</td>
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<tr>
<td>ASTRO 160/131</td>
<td>Intro to Mod Astro w/Lab (3.1)(SU12)</td>
</tr>
<tr>
<td>BIO 050</td>
<td>Basic Biology (3)(F97)</td>
</tr>
<tr>
<td>BIO 101</td>
<td>Biological Principles (4)</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Gen Biology (4)</td>
</tr>
<tr>
<td>BIO 114</td>
<td>Gen Ecology (4)(SU10)</td>
</tr>
<tr>
<td>BIO 115</td>
<td>Genetics, Evolution &amp; Society (3)(F97)</td>
</tr>
<tr>
<td>BIO 116</td>
<td>Bio: A Human Prospects (4)(SU10)</td>
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<tr>
<td>BIO 128</td>
<td>Sierra Nev Nat Hist (3)(SU16)</td>
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<tr>
<td>EASC 151</td>
<td>Earth Sci (4)</td>
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<tr>
<td>EASC 162</td>
<td>Intro to Oceanography (4)(SU08)</td>
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<tr>
<td>ELTEC 200</td>
<td>Fund of Elect and Elect (3)(F97)</td>
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<td>ENSCI 109</td>
<td>Environ Conservation (3)</td>
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<tr>
<td>ENVR 219</td>
<td>Intro to Nutm Sci (3) (SU17)</td>
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<td>GEOG 101</td>
<td>Physical Geography (3)</td>
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<td>Physical Geography, Lab (1)(SU17)</td>
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<td>Intro to Geology (3)</td>
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<tr>
<td>GEOG 161</td>
<td>Physical Geography (4)</td>
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<tr>
<td>GEOL 165</td>
<td>Geology of California (3)</td>
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<tr>
<td>GEOL 166</td>
<td>Historical Geology (4)</td>
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<td>METEO 161</td>
<td>Intro to Meteorology (4)(SU08)</td>
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<td>MICRO 101</td>
<td>Microbiology (4)</td>
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<td>Plagues of Humankind (3)(SU15)</td>
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<td>NR 200</td>
<td>Solis (3)</td>
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<td>PE 124</td>
<td>Intro to Kinesiology (3)(SU12)</td>
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<td>PHYS 52</td>
<td>The Way Things Work (3)(SU16)</td>
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<td>PHYS 180</td>
<td>Cropth Packaging (4)(SU15)</td>
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<td>PHYS 191</td>
<td>Gen Phys: Mechanics (4)</td>
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<td>PHYS 205</td>
<td>Gen Phys: Nukes, Therm, Optics (4)(SU14)</td>
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<td>PHYS 215</td>
<td>Gen Phys: Elect &amp; Mag. (4)(SU14)</td>
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<td>PHYS 245</td>
<td>Mech, Heat &amp; Waves (4)</td>
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<td>PHYS 267</td>
<td>Elect, Mag, Opt, &amp; Nurd (4)(SU11)</td>
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<td>PHYS 269</td>
<td>Descript Intro to Phys (3)</td>
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<td>PHYS 300</td>
<td>Intro to Plant Sci (3)</td>
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<tr>
<td>PHYS 301</td>
<td>Intro to Human Physics (4)(SU07)</td>
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<tr>
<td>PHYS 303</td>
<td>Intro to NeuroSci (3)(SU10)</td>
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<tr>
<td>PLC 200</td>
<td>Intro to Plant Sci (3)</td>
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<tr>
<td>PLC 230</td>
<td>Fruit Sci (3)</td>
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<td>PSYCH 101</td>
<td>Intro to NeuroSci (3)</td>
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<tr>
<td>ZOOL 101</td>
<td>Gen Zoology (4)(SU10)</td>
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**Area B. Social & Behavioral Sciences:** Complete a minimum of three (3) units

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<th>Course Code</th>
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<tr>
<td>ADOU 201</td>
<td>Intro to Admin of Justice (3)</td>
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<tr>
<td>ADOU 202</td>
<td>Price/Prcen of Just Syst (3)(SU12)</td>
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<tr>
<td>ADOU 203</td>
<td>Concepts of Criminal Law (3)(SU12)</td>
</tr>
<tr>
<td>ADOU 217</td>
<td>Substance Abuse (3)(SU13)</td>
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<td>ADOU 235</td>
<td>Intro to Corrections (3)(SU07)</td>
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<td>AGEC 210</td>
<td>Elem of Ag Econ (3)</td>
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<tr>
<td>AGGE 146</td>
<td>Ag, Environ &amp; Soc (3)(F97)</td>
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<tr>
<td>ANTHR 101^1</td>
<td>Biological Anthro (3)(SU15)</td>
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<tr>
<td>ANTHR 102</td>
<td>Cultural Anthro (3)</td>
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<tr>
<td>ANTHR 104</td>
<td>Linguistic Anthro (3)(SU07)</td>
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<tr>
<td>ANTHR 130</td>
<td>Arch &amp; Cltl Prehistory (3)(SU12)</td>
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<tr>
<td>ANTHR 140</td>
<td>Magic, Witchcraft &amp; Religion (3)(F97)</td>
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<td>BUSA 240</td>
<td>Principles of Mgmt (3)</td>
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<tr>
<td>CLOD 103</td>
<td>Child Growth &amp; Devt (3)</td>
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<td>CLOD 109</td>
<td>Child Fam-Comm (3)(F14)</td>
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<td>CLOD 190</td>
<td>Intro Children's Spec Needs (3)(SU16)</td>
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<td>COMM 103</td>
<td>Intercultural Commn (3)(SU14)</td>
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<td>COMM 130</td>
<td>Intercultural Commn (3)(SU14)</td>
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<td>Principles of MacroEcon (3)</td>
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<td>ECON 102</td>
<td>Principles of MicroEcon (3)</td>
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<td>Econ Hist of the US (3)</td>
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<td>FAMFL 131^1</td>
<td>Family Relationships (3)(F15)</td>
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<td>GEOG 102</td>
<td>Cultural Geography (3)(F98)</td>
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<td>GEOG 104</td>
<td>California Geography (3)(SU09)</td>
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<td>GEOG 110</td>
<td>Economic Geography (3)(SU09)</td>
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<td>HE 112^</td>
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<td>HE 114</td>
<td>Health &amp; Social Justice (3)(SU15)</td>
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<td>Soc/Cult Hist 20th Cent Amer (3)</td>
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<td>HE 125</td>
<td>Hist of Mexico (3)(SU11)</td>
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<td>HE 127</td>
<td>Soc/Cult Hist 20th Cent Amer (3)</td>
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<td>HE 128</td>
<td>Hist of Us since 1865 (3)</td>
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<td>HE 129</td>
<td>Hist of California (3)(SU12)</td>
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<td>HIST 106^</td>
<td>World Civ to the 10th Cent (3)(F02)</td>
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<td>HIST 110</td>
<td>World Civ from the 18th Cent (3)(SU17)</td>
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<td>20th Cent Amer (3)</td>
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<td>Soc/Cult Hist 20th Cent Amer (3)</td>
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<tr>
<td>HIST 115</td>
<td>Econ Hist of the US (3)</td>
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<tr>
<td>HIST 116</td>
<td>Women in Amer Hstory(3)(SU11)</td>
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<td>HIST 119</td>
<td>Soc/Cult Hist 20th Cent Amer (3)</td>
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<td>HIST 125</td>
<td>Hist of Mexico (3)(SU11)</td>
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<td>HIST 128</td>
<td>The American West (3)</td>
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<td>HIST 129</td>
<td>Hist of California (3)(SU12)</td>
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<td>HIST 145</td>
<td>Hist of Latin America (3)(SU11)</td>
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<tr>
<td>HIST 154</td>
<td>Ath Amer thru 19th Cent (3)(F99)</td>
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*Reflects Curriculum Committee MJC-GE approvals effective Summer 2017. Revised 3/17/17 LSMTP
Area B. Social & Behavioral Sciences:

(continued) Complete a minimum of three (3) units

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<td>Intro to Human Services (3)</td>
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<tr>
<td>HUMS 114</td>
<td>Death &amp; Dying (3)(SU08)</td>
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<tr>
<td>HUMS 142</td>
<td>Intro to Psychos Rehab (3)(SU09)</td>
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<tr>
<td>HUMS 143</td>
<td>Psychos Rehab Practice (3)(SU09)</td>
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<tr>
<td>PHILO 130*</td>
<td>Political Philosophy (3)(SU15)</td>
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<tr>
<td>POLSC 101</td>
<td>Amer Politics (3)</td>
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<tr>
<td>POLSC 102</td>
<td>Const &amp; Rights of Pers (3)</td>
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<tr>
<td>POLSC 106</td>
<td>An Interview (3)(SU16)</td>
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<td>POLSC 180</td>
<td>Human Rights (3)(SU14)</td>
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<td>PSYC 110</td>
<td>Psych in Everyday Life (3)</td>
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<td>PSYC 111</td>
<td>Gen Psych (3)</td>
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<tr>
<td>PSYC 104</td>
<td>Intro to Social Psych (3)(SU08)</td>
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<td>PSYC 105</td>
<td>Abnormal Psych (3)(SU07)</td>
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<td>PSYC 111</td>
<td>Psych of Gender (3)(SU07)</td>
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<td>SOCIO 101</td>
<td>Intro to Sociology (3)</td>
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<td>SOCIO 125</td>
<td>Sociology of the Family (3)(SU12)</td>
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<tr>
<td>SOCIO 150</td>
<td>Ethnic &amp; Cultural in Amer (3)</td>
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<tr>
<td>SOCIO 154</td>
<td>Afr-Amer Cultural &amp; Communities(3)</td>
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<tr>
<td>SOCIO 156</td>
<td>Mexican Cultural in the US (3)</td>
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<tr>
<td>SOCC 105*</td>
<td>Women's Studies (3)(F01)</td>
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<tr>
<td>SOCC 110</td>
<td>Intro to Elem Education (3)</td>
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Area C. Humanities:

Complete a minimum of three (3) units

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<tr>
<td>ART 102</td>
<td>Intro to Computer Graphics (3)(SU15)</td>
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<tr>
<td>ART 120</td>
<td>Basic Drawing 1 (3)(SU12)</td>
</tr>
<tr>
<td>ART 124</td>
<td>Color &amp; 2D Fndtn Design (3)(SU07)</td>
</tr>
<tr>
<td>ART 140</td>
<td>Sculpture 1 (3)(SU15)</td>
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<tr>
<td>ART 160</td>
<td>Appreciation of Art (3)</td>
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<td>ART 162</td>
<td>Hist of Renaissance Art (3)</td>
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<tr>
<td>ART 163</td>
<td>Hist of Modern Art (3)</td>
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<tr>
<td>ART 164</td>
<td>Hist of Art 1-Prehis to Gothic (3)</td>
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<tr>
<td>ART 165</td>
<td>Hist of Art 2-Ren to Cotemp(3)</td>
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<tr>
<td>ART 166</td>
<td>Hist of Photography (3)</td>
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<tr>
<td>ART 169</td>
<td>Surv of Asian Art (3)(F99)</td>
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<tr>
<td>ART 170</td>
<td>Basic Photography (3)(SU12)</td>
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<tr>
<td>CMPGR 202</td>
<td>Intro to Comp Graphics (3)(SU15)</td>
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<tr>
<td>COMM 120</td>
<td>Oral Interpretation (3)(SU14)</td>
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<tr>
<td>COMM 122</td>
<td>Intro to Readers’ Thr (3)(SU14)</td>
</tr>
<tr>
<td>COMM 123</td>
<td>Storytelling (3)(SU14)</td>
</tr>
<tr>
<td>COMM 124</td>
<td>Adv Readers’ Thr (3)(SU14)</td>
</tr>
<tr>
<td>COMM 132*</td>
<td>Intro to Mass Comm (3)(SU18)</td>
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<tr>
<td>DANSE 102</td>
<td>Intro to World Dance (3)(SU16)</td>
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<tr>
<td>ENGL 102</td>
<td>Adv Comp &amp; Intro to Lit (3)(SU07)</td>
</tr>
<tr>
<td>ENGL 105</td>
<td>Creative Writing: Poetry (3)(SU15)</td>
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<tr>
<td>ENGL 106</td>
<td>Creative Writing: Short Fict (3)(SU15)</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>Crit/Writing: Ctxt-Nordic (3)(SU14)</td>
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<tr>
<td>ENGL 112</td>
<td>Intro to Novel &amp; Short Story (3)</td>
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<tr>
<td>ENGL 114</td>
<td>Intro to Poetry (3)</td>
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<tr>
<td>ENGL 116</td>
<td>Intro to Drama (3)</td>
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<tr>
<td>ENGL 131</td>
<td>Intro to World Lit 1 (3)</td>
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Area D. Language & Rationality:

Complete D1 and D2 as indicated for six (6) units.

D.1 English Composition:

Complete three (3) units

<table>
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<td>Argumentation (3)(SU14)</td>
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<tr>
<td>COMM 106</td>
<td>Group &amp; Org Comm (3)(SU14)</td>
</tr>
<tr>
<td>COMM 107</td>
<td>Intro to Debate (3)(SU14)</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Persuasion (3)(SU14)</td>
</tr>
<tr>
<td>COMM 132*</td>
<td>Intro to Mass Comm (3)(SU16)</td>
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<tr>
<td>COMM 133</td>
<td>Mediated Comm (3)(SU15)</td>
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<tr>
<td>CSCI 200</td>
<td>Technol Comp Lit (3)(SU14)</td>
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<td>CSCI 201</td>
<td>Gen Comp Lit (3)(SU14)</td>
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<tr>
<td>CSCI 203</td>
<td>Symbolic Logic (3)(SU14)</td>
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<tr>
<td>CSCI 212</td>
<td>Windows Server OS (3)(SU14)</td>
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<tr>
<td>CSCI 221</td>
<td>Prgrmmng w/Visual Basic (3)(SU14)</td>
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<tr>
<td>CSCI 230</td>
<td>Dbsase Mgmt Systems (3)(SU14)</td>
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<tr>
<td>CSCI 253</td>
<td>Web Database Dev (3)(SU14)</td>
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D.2 Comm. & Analytical Thinking:

Complete a minimum of three (3) units

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<tr>
<td>AGEC 225</td>
<td>Agri Comp Apps (3)(SU09)</td>
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<tr>
<td>BUSAD 210</td>
<td>Bus Comm (3)</td>
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<tr>
<td>COMM 100</td>
<td>Fund of Public Speaking (3)(SU14)</td>
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<tr>
<td>COMM 110</td>
<td>Intro to Human Comm (3)(SU14)</td>
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Area E. Health Education:

Complete a minimum of three (3) units

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<th>Course Code</th>
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<tr>
<td>ADJU 217*</td>
<td>Substance Abuse (3)(SU13)</td>
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<tr>
<td>BUSAD 230</td>
<td>Personal Finance (3)(SU13)</td>
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<tr>
<td>CLDDEV 103*</td>
<td>Child Growth &amp; Devt (3)(SU08)</td>
</tr>
<tr>
<td>CLDDEV 111</td>
<td>Health, Safety, Nutrition (3)(SU10)</td>
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<tr>
<td>Colsk 100</td>
<td>Found for 1St Yr College SU(s)(SU12)</td>
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<tr>
<td>FAML 131*</td>
<td>Family Relationships (3)</td>
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<tr>
<td>FDNTR 132*</td>
<td>Nutrition (3)(SU15)</td>
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<td>HE 100</td>
<td>Healthful Living (3)</td>
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<tr>
<td>HE 111</td>
<td>Women’s Health Issues (3)</td>
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<tr>
<td>MATH 103</td>
<td>Finite Mathematics (3)</td>
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<td>Elementary Statistics (4)</td>
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<td>Calculus for Bus/Soc Sci (3)</td>
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<tr>
<td>MATH 106</td>
<td>Trigonometry (3)(SP17)</td>
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<td>Calculus: 1st Course (3)</td>
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<td>MATH 108</td>
<td>Calculus: 2nd Course (4)</td>
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<tr>
<td>MATH 109</td>
<td>Calculus: 3rd Course (4)</td>
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<td>MATH 110</td>
<td>Intro to Diff Eqn &amp; Lin Alg (SU12)</td>
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<td>Precalculus (3)(SP17)</td>
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<td>MATH 112</td>
<td>Critical Reas &amp; Analytic Writing(3)</td>
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<td>PHIL 102</td>
<td>Symbolic Logic (3)</td>
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<td>PHIL 103</td>
<td>Symbolic Logic (3)</td>
</tr>
<tr>
<td>PHIL 106</td>
<td>Critical Reas &amp; Analytic Writing(3)</td>
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<td>PHIL 107</td>
<td>Philo of Sci (3)</td>
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<td>READ 184</td>
<td>Critical Reading (3)(SU17)</td>
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<td>SOCIO 105</td>
<td>Intro to Stat for Soc &amp; Beh Sci (3)(SU12)</td>
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<td>SUPR 106</td>
<td>Group/Org Comm (3)(SU11)</td>
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Legend

(3) Units earned

(3) Students completing this course prior to term (Fall 5, Spring 6, Summer 7) and year indicated will not be allowed to fulfill this requirement with this course.

^ Although listed in more than one area, the course may be counted toward only one MX-GE pattern area.
The CSU-GE pattern allows California community college transfer students to fulfill lower-division general education requirements for all California State University (CSU) campuses. The 39-unit curriculum has five areas of concentration (Areas A-E). The CSU History, Constitution, and American Ideal requirement may also be completed at MJC prior to transfer. Courses in Area A1, A2, A3 and B4 must be passed with a grade of “C” or higher, “P” or “CR”. Students are encouraged to meet with a counselor or enroll in a Guidance class to ensure educational goals are being met. To request complete or partial area CSU-GE Certification, visit the Transcript Request page, or the Records Office, Student Services Bldg., Rm. 102. Also, students should review important information on CSU Upper Division Admissions Requirements on p. 92, and information on Certification of general education, page 102.*

B.2 LIFE SCIENCE

ANAT 125* Human Anatomy (4)
ANSC 200 Intro to Animal Sci (3)(SU06)
ANTHR 101* Biological Anthro (3)(F90)
ANTHR 101-105* Biol Anthro wLab (3.1), F90, F98
AP 150* Integrative Anat and Physio(5)(F96)
BIO 101* Biological Principles (4)(SU15)
BIO 111* Gen Biology (4)
BIO 114* Gen Ecology (4)(SU10)
BIO 125 Genetics, Evolution & Society (3)(F97)
BIO 116* Bio: A Human Prspective (4)(SU10)
BIO 140* Intro to Marine Bio (4)
BIO 145 Intro to Freshwater Bio (4)
BOT 101* Gen Botany (4)
BOT 110* Plant Biology (3)(F15)
ENSCI 108 Environ Conservation (3)(F97)
MICRO 101* Microbiology (4)(F94)
PHYS 101* Intro Human Physio (4)
PHYS 103 Intro to NeuroSci (3)(SU08)
PLSC 200 Intro to Plant Sci (3)(SU04)
PSYCH 103 Intro to NeuroSci (3)(F90)
ZOO 101* Gen Zoology (4)

B.3 LABORATORY ACTIVITY

Take one course from B.1 or B.2 with a laboratory, as indicated by the asterisk (*)

C.1 ARTS (ARTS, DANCE, MUSIC, THEATRE)

ART 102 Intro to Comp Graphics (3)(F95)
ART 120 Basic Drawing I(3)
ART 140 Sculpture I(3)
ART 160 Appreciation of Art (3)
ART 162 History of Renaissance Art (3)(F92)
ART 163 Finite Math Art (3)(F94)
ART 164 History of Art 1: Prehistoric to Gothic (3)
ART 165 History of Art 2: Ren to Contemp(3)
ART 168 History of Photography (3)
ART 169 Survey of Asian Art (3)(F99)
ART 170 Basic Photography (3)(F98)
CMPGR 202 Intro to Comp Graphics (3)(F95)

C.2 HUMANITIES (LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGES)

ANTHR 104* Linguistic Anthro (3)(SU07)
ENGL 102 Adv Comp & Intro to Lit (3)
ENGL 105 Creative Writing: Poetry (3)
ENGL 106 Creative Writing: Short Fiction (3)
ENGL 112 Intro to Novel & Short Story (3)
ENGL 114 Intro to Poetry (3)
ENGL 116 Intro to Comp (3)
ENGL 131 Intro to World Lit 1 (3)
ENGL 132 Intro to World Lit 2 (3)
ENGL 135 Surv Amer Lit to 1850 (3)
ENGL 136 Surv Amer Lit 1850 to Prsent (3)
ENGL 137 Surv Eng Lit to Late 18th Cnty (3)
ENGL 138 Surv Eng Lit Late 18th Cnty-Prsent (3)
ENGL 151 Folklore (3)
ENGL 155 Bible as Lit: Hebrew Canon &... (3)
ENGL 157 Bible as Lit: New Testament (3)
ENGL 162 History of Cinema (3)(F03)
ENGL 163 Intro to Shakespeare (3)
ENGL 169 Adolescent Lit (3)(F90)
ENGL 169 Children’s Lit (3)
ENGL 171 Intro to African-American Lit (3)(F90)
ENGL 172 Intro to Chicano/a Lit (3)(F93)
ENGL 173 Intro to Latin Amer Lit (3)(F95)
ENGL 174 Intro to Mod Asian Lit (3)(SU06)

* Units earned:
(F97) Students completing this course prior to term (F: Fall, S: Spring, SU: Summer) and year indicated will not be allowed to fulfill this requirement with this course.

† Although listed in more than one area, the course may be counted toward only one CSU-GE pattern area.

* Denotes a lab science course.

† At the time of publication the course had approval only for the unit value indicated. See a counselor or ASSIST.org for current approval.

††Updated to reflect local curriculum changes as of 3/27/17 (LSM/sp). NOTE: 2017-2018 CSU-GE pattern approvals for 2017-2018 had not yet been received at the time of publication. Please visit ASSIST.org to view current pattern information.
### C.2 HUMANITIES (LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGES) (cont’d)

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<td>Intro to Women’s Lit (3)</td>
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<tr>
<td>ENGL 179</td>
<td>Intro to Myths, Oral Trad (3)(F95)</td>
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<tr>
<td>FREN 101</td>
<td>French 1 (5)</td>
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<td>FREN 102</td>
<td>French 2 (5)</td>
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<tr>
<td>GERM 101</td>
<td>German 1 (5)</td>
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<tr>
<td>GERM 102</td>
<td>German 2 (5)</td>
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<tr>
<td>HIST 104</td>
<td>Western Civ to 1650 (3)(F10)</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Western Civ Since 1650 (3)(F10)</td>
</tr>
<tr>
<td>HIST 106</td>
<td>World Civ to the 16th Cent (3)(S07)</td>
</tr>
<tr>
<td>HIST 107</td>
<td>World Civ from the 16th Cent (3)(F10)</td>
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<tr>
<td>HUMAN 101</td>
<td>Intro to the Humanities (3)</td>
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<tr>
<td>HUMAN 105</td>
<td>Early Humanistic Trad (3)(F99)</td>
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<td>HUMAN 106</td>
<td>Humanities in Modern World (3)(F98)</td>
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<td>HUMAN 110</td>
<td>East Meets West (3)(F97)</td>
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<td>HUMAN 130</td>
<td>Intro to Western Religions (3)(F03)</td>
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<td>HUMAN 140</td>
<td>Intro to World Mythology (3)(S06)</td>
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<td>ITAL 101</td>
<td>Italian 1 (5)(F07)</td>
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<td>PHIO 101</td>
<td>Philosophy (3)</td>
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<td>PHIO 111</td>
<td>Ethics: Theory &amp; Appl (3)</td>
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<tr>
<td>PHIO 113</td>
<td>Philo of Art (3)(S08)</td>
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<td>PHIO 115</td>
<td>Religion: Philo &amp; Comp Inq (3)</td>
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<tr>
<td>PHIO 120</td>
<td>History of Philo: Ancient (3)</td>
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<tr>
<td>PHIO 121</td>
<td>History of Philo: Modern (3)</td>
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<td>PHIO 123</td>
<td>20th Cent Philo (3)(F02)</td>
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<td>PHIO 135</td>
<td>Environ Ethics (3)(F08)</td>
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<td>PHIO 140</td>
<td>Philo &amp; Film (3)(F93)</td>
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<td>ASL: Basic Comm w/Deaf (3)(F95)</td>
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<td>SIGN 126</td>
<td>ASL: Interm Comm w/Deaf (3)(F95)</td>
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<td>Span for Span Spkr 1 (5)(S07)</td>
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### D.4 GENDER STUDIES

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<tr>
<td>HIST 116</td>
<td>Women in Amer Hist (3)(F10)</td>
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<tr>
<td>PSYCH 112</td>
<td>Psych of Gender (3)(S07)</td>
</tr>
<tr>
<td>SOCIO 118</td>
<td>Women’s Studies (3)(F01)</td>
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### D.5 GEOGRAPHY

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<tr>
<td>GEOG 102</td>
<td>Cultural Geography (3)</td>
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<td>GEOG 104</td>
<td>California Geography (3)(F08)</td>
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<tr>
<td>GEOG 105</td>
<td>Economic Geography (3)(F00)</td>
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<td>GEOG 110</td>
<td>World Regional Geography (3)(F97)</td>
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### D.6 HISTORY

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<td>ECON 115</td>
<td>Econ Hist of the US (3)</td>
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<tr>
<td>HIST 101</td>
<td>Hist of US to 1877 (3)</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Hist of US Since 1865 (3)</td>
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<tr>
<td>HIST 104</td>
<td>Western Civ to 1650 (3)</td>
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<td>HIST 105</td>
<td>Western Civ Since 1650 (3)</td>
</tr>
<tr>
<td>HIST 106</td>
<td>World Civ to the 16th Cent (3)(F02)</td>
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<td>World Civ from the 16th Cent (3)(F02)</td>
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<td>HIST 112</td>
<td>20th Cent Amer (3)</td>
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<td>HIST 113</td>
<td>Soc/Ctrl Hist 20th Cent Amer (3)</td>
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<td>HIST 115</td>
<td>Econ Hist of the US (3)</td>
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<td>HIST 116</td>
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<td>HIST 118</td>
<td>Soc/Ctrl Hist 20th Cent Amer (3)(F00)</td>
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<td>HIST 125</td>
<td>Hist of Mexico (3)</td>
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<td>HIST 128</td>
<td>The American West (3)(F94)</td>
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<td>HIST 129</td>
<td>Hist of California (3)</td>
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<td>Hist of Latin Amer (3)</td>
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<td>Afr Amer thru 19th Cent (3)(F95)</td>
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<td>HIST 155</td>
<td>Afr Amer in 20th/21st Cent (3)(F99)</td>
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### D.7 INTERDISCIPLINARY SOCIAL OR BEHAVIOR SCIENCE

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<td>Agr, Environ &amp; Soc (3)(F97)</td>
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<td>CLODDY 103</td>
<td>Child Growth &amp; Devt (3)(F09)</td>
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<td>CLODDY 202</td>
<td>Diversity in Educ Settings (3)(F08)</td>
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<td>COMM 103</td>
<td>Interpersonal Comm (3)(S14)</td>
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<td>COMM 130</td>
<td>Intercultural Comm (3)(S14)</td>
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<td>ENSCI 110</td>
<td>California Water (3)(F98)</td>
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<tr>
<td>FAML 131^</td>
<td>Family Relationships (3)(S07)</td>
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### D.8 POLITICAL SCIENCE, GOVERNMENT AND LEGAL INSTITUTIONS

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<td>Intro to Admin of Justice (3)(F11)</td>
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<td>PHIO 130</td>
<td>Political Theory (3)</td>
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<td>POLSC 101</td>
<td>Amer Politics (3)</td>
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<tr>
<td>POLSC 102</td>
<td>Const &amp; Rights of Pers (3)</td>
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<td>POLSC 110</td>
<td>International Relations (3)</td>
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<td>POLSC 111</td>
<td>War/Peace: Lenin to Al Qaeda (3)</td>
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<td>POLSC 120</td>
<td>Calif Politics &amp; Problems (3)</td>
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<td>Amer Political Thought (3)(S07)</td>
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<td>POLSC 140</td>
<td>Comparative Politics (3)</td>
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<td>Human Rights (3)(SU14)</td>
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### D.9 PSYCHOLOGY

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<td>Intro to Social Psych (3)(F91)</td>
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<td>Abnormal Psych (3)(S07)</td>
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### D.3 ETHNIC STUDIES

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<tr>
<td>ANTHR 101^</td>
<td>Native People of N. Amer (3)(F11)</td>
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### AREA D

#### Social Sciences

Nine (9) units from at least two subareas (D.0-D.9). Courses marked with ^ may be used in one area only.

#### D.0 SOCIOLOGY AND CRIMINOLOGY

<table>
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<th>Course Code</th>
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<td>Concepts of Criminal Law (3)(F11)</td>
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<td>SOCIO 101</td>
<td>Intro to Sociology (3)</td>
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<tr>
<td>SOCIO 102</td>
<td>Soc Problems in US (3)(F01)</td>
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<tr>
<td>SOCIO 125</td>
<td>Sociology of the Family (3)</td>
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<tr>
<td>SOCIO 150^</td>
<td>Ethnic &amp; Cultural in Amer (3)</td>
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<tr>
<td>SOCIO 154^</td>
<td>Afr-Amer Cultural &amp; Communities (3)</td>
</tr>
<tr>
<td>SOCIO 156^</td>
<td>Mexican Cultural in the US (3)</td>
</tr>
<tr>
<td>SOCIO 157^</td>
<td>Women’s Studies (3)(F01)</td>
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#### D.1 ANTHROPOLOGY & ARCHAEOLOGY

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<td>Biological Anthro (3)(F90)</td>
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<tr>
<td>ANTHR 104^</td>
<td>Cultural Anthro (3)</td>
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<tr>
<td>ANTHR 104^</td>
<td>Linguistic Anthro (3)(SU07)</td>
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<td>ANTHR 130</td>
<td>Arch &amp; Cultural Prehstry (3)</td>
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<td>ANTHR 140</td>
<td>Magic, Witchcraft &amp; Religion (3)(F97)</td>
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<td>ANTHR 150^</td>
<td>Native People of N. Amer (3)</td>
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#### D.2 ECONOMICS

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<td>Elem of Ag Econ (3)(F98)</td>
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<td>ECON 101</td>
<td>Principles of Macroecon (3)</td>
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<td>ECON 102</td>
<td>Principles of Microecon (3)</td>
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<td>ECON 115^</td>
<td>Econ of the US (3)</td>
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<td>GEOG 105^</td>
<td>Economic Geography (3)(F00)</td>
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<td>Econ of the US (3)</td>
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#### D.3 ETHNIC STUDIES

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<td>Native People of N. Amer (3)(F11)</td>
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IGETC Transfer Pattern 2016-2017†
MJC General Education Transfer pattern for California State University or the University of California

IGETC is a general education pattern that, upon full or partial completion (defined as "all but two courses."), will fulfill some or all lower-division general education requirements at California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out of state universities. IGETC is not the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer. Students should consult with a counselor or complete a Guidance class to ensure educational goals are being met. To request complete or partial IGETC certification visit the the Transcript Request page online or the Records Office, Student Services Bldg., Room 102. For more information see "CERTIFICATION OF GENERAL EDUCATION" on 105 in the 2017-2018 MJC catalog. All courses must be passed with a grade of "C" or higher, "P", or "CR".

AREA 1: English Communication

If you plan to attend CSU, choose 3 courses, 1 from each group. If you plan to attend UC, choose 2 courses, 1 from Group A, and 1 from Group B.

Group 1A: English Composition
One course, or three (3) semester units
ENGL 101 Comp & Reading (3)

Group 1B: Critical Thinking/English Composition
One course, or three (3) semester units
COMM 104 Argumentation (3)(SU14)
ENGL 103 Adv. Comp & Critical Thinking (3)
PHIL 105 Critical Reas & Analytic Writing (3)
PHIL 107 Phil of Sci (3)(F93)

Group 1C: Oral Communication (CSU ONLY)
One course, or three (3) semester units
COMM 100 Fund of Public Speaking (3)(SU14)
COMM 102 Intro to Human Comm (3)(SU14)
COMM 110 Persuasion (3)(SU14)

AREA 2A: Mathematical Concepts and Quantitative Reasoning

One course, or three (3) semester units
CS110 Discrete Struct for Comp Sci (3)(SU15)
MATH 101 Math Ideas & Application (3)
MATH 111 Appl College Algebra (3)(F02)**
MATH 121 Pre-Calculus 1 (5)(F06)**
MATH 122 Pre-Calculus 2 (5)(F06)**
MATH 130 Finite Mathematics (3)
MATH 134 Elementary Statistics (4)
MATH 138 Calculus for Bus/Soc Sci (3)**
MATH 171 Calculus: 1st Course (5)
MATH 172 Calculus: 2nd Course (5)
MATH 173 Calculus: 3rd Course (5)(SU07)
MATH 174 Intro to Diff Eqtn & Lin Alg (5)(S07)
SOCIO 105 Intro to Stats/Soc & Beh Sci (3)(F15)

AREA 3: Arts and Humanities

For UC and CSU, choose at least three (3) courses/nine (9) semester units. One course must be from 3A and one from 3B, & one additional course from either 3A or 3B.

Group 3A: Arts
ART 160 Appreciation of Art (3)
ART 162 History of Renaissance Art (3)(F95)
ART 163 Survey of Modern Art (3)(F95)
ART 164 History of Art: Prehist to Gothic (3)
ART 165 History of Art: Ren to Contemp(3)
ART 168 History of Photography (3)(F12)
ART 169 Survey of Asian Art (3)(F99)
COMM 132* Intro to Mass Comm (3)(SU16)
DANCE 102 Intro to World Dance (3)(SU16)
ENGL 161 Film Appreciation (3)(SU16)
MUSG 101 Music Appreciation (3)(SU08)
MUSG 102 Intro to World Music (3)(SU09)
MUSG 111 Intro to Amer Pop Music (3)(SU09)
MUSG 121 History of Western Music (3)(SU09)
MUSG 122 Music Theory 1 (3)(SU09)
MUSG 122 Music Theory 2 (3)(SU09)
MUSG 123 Music Theory 3 (3)(SU09)
MUSG 124 Music Theory 4 (3)(SU09)
THEAT 100 Intro to Thr Arts (3)

Group 3B: Humanities

ANTHR 101* Linguistic Anthropology (3)(SU07)
ENGL 112 Intro to Novel & Short Story (3)
ENGL 116 Intro to Poetry (3)
ENGL 131 Intro to World Lit 1 (3)
ENGL 132 Intro to World Lit 2 (3)
ENGL 135 Survey Amer Lit To 1850 (3)
ENGL 136 Surv Amer Lit: 1850 to Prsent (3)
ENGL 137 Surv Eng Lit to Late 18th Cntry (3)
ENGL 138 Surv Eng Lit Late 18th Cnntry-Prsent (3)
ENGL 151 Folklore (3)(F01)
ENGL 156 Bible as Lit: Hebrew Canon &... (3)
ENGL 157 Bible as Lit: New Testament (3)
ENGL 162 Histy of Cinema (3)(F03)
ENGL 163 Intro to Shakespeare (3)
ENGL 168 Adolescent Lit (3)(S07)
ENGL 169 Children's Lit (3)(S07)
ENGL 171 Intro African-American Lit (3)
ENGL 172 Intro to Chicanoa Lit (3)(F95)
ENGL 173 Intro to Latin Amer Lit (3)(F95)
ENGL 174 Intro to Mod Asian Lit (3)(S05)
ENGL 175 Intro to Women's Lit (3)
ENGL 179 Intro Mth, Myth, Oral Tradn (3)(F99)
FREN 100 French 2 (5)(S07)
GERM 102 German 2 (5)(S07)
HIST 104* Western Civ to 1650 (3)(F10)
HIST 105* Western Civ Since 1650 (3)(F10)
HIST 106* World Civ to the 16th Cntry (3)(S07)
HIST 107* World Civ from the 16th Cntry (3)(F10)
HUMAN 101 Intro to the Humanities (3)
HUMAN 105 Early Humanistic Trad (3)
HUMAN 106 Humanities in Modern World (3)
HUMAN 110 East Meets West (3)
HUMAN 130 Intro to Western Religions (3)(S03)
HUMAN 140 Intro to Women's Studies (3)(S06)
PHIL 101 Philosophy (3)
PHIL 111 Ethics: Theory & Appl (3)
PHIL 113 Phil of Art (3)(SU08)
PHIL 115 Religion: Phil Comp Inq (3)
PHIL 120 Histy of Philo: Ancient (3)
PHIL 121 Histy of Philo: Modern (3)
PHIL 123 20th Cent Philo (3)(F02)
PHIL 135 Ethnical Crs (3)(S09)
PHIL 140 Philo & Film (3)(S07)
SIGN 126 ASL: Interim Comm w/Deaf (3)(F97)
SIGN 127 ASL: Adv Comm w/Deaf (3)(F97)
SPAN 102 Spanish 2 (5)(F08)**
SPAN 109 Intro to Spanish (5)(F01)
SPAN 104* Spanish 4 (5)(F92)
SPAN 112 Intro to Chicanoa Lit (3)
SPAN 173 Surv of Latin Amer Lit (3)(S06)

Group 4A: Anthropology & Archaeology
ANTHR 101* Biological Anthropology (3)(F13)
ANTHR 102 Cultural Anthro (3)
ANTHR 104* Linguistic Anthro (3)(SU07)

ANTHR 130 Arch & Cultural Prehist (3)
ANTHR 140 Magic, Witchcraft & Religion (3)(S07)
ANTHR 150 *Native People of N. Amer (3)

Group 4B: Economics

AGEC 210 Elem of Ag Econ (3)(F11)
ECOM 101 Principles of MicroEcon (3)
ECOM 102 Principles of MicroEcon (3)
ECON 115* Econ Hist of the US (3)
ECON 105* Econ Geography (3)(F14)
HIST 115* Econ Hist of the US (3)

Group 4C: Ethnic Studies

ANTHR 150* Native People of N. Amer (3)(F11)
COMM 130* Interpersonal Comm (3)(SU14)
HIST 115* Soc/Cult Hist 20th Cent Amer (3)(F10)
HIST 119* Soc/Cult Hist 20th Cent Amer (3)(F10)
HIST 125* Hist of Mexico (3)(F15)
HIST 128* The American West (3)(F10)
HIST 154* Afr Amer in 19th Cent (3)(F11)
HIST 155* Afr Amer in 20th/21st Cent (3)(F02)

Group 4D: Gender Studies

HIST 116* Women in Amer Hist (3)(F10)
PVCS 111* Psych of Gender (3)(S07)
SOCSC 105* Women's Studies (5)(F12)

Group 4E: Geography

GEOG 102 Cultural Geography (3)
GEOG 104 California Geography (3)(F08)
GEOG 105* Econ Geography (3)(S00)
GEOG 110 World Regional Geography (3)(G)

Group 4F: History

HIST 116* Women in Amer Hist (3)(F10)
PVCS 111* Psych of Gender (3)(S07)
SOCSC 105* Women's Studies (5)(F12)

Group 4G: Interdisciplinary, Social & Behavioral Sciences

CLHDV 103 Child Growth & Dev (3)(F08)
COMM 103 Interpersonal Comm (3)(SU03)
COMM 130* Interpersonal Comm (3)(SU14)
COMM 132* Intro to Mass Comm (3)(SU16)
ENSCI 110 California Water (3)(F08)
FAML 131 Family Relationships (3)(S07)

Group 4H: Political Science, Government & Legal Institutions

ADJU 201 Intro to Admin of Justice (3)(F11)
PHIL 120 Political Theory (3)
POLS 101 Amer Political History (3)
POLS 102 Const & Rights of Pers (3)
POLS 110 International Relations (3)
POLS 111 War/Peace: Lenin to Al Qaeda (3)
POLS 120 Call Politcs & Problemes (3)

† Updated to reflect local curriculum changes as of 3/27/17 (LSMap). NOTE: 2017-2018 IGETC pattern approvals had not yet been received at the time of publication. Please visit ASSIST.org to view current pattern information.
**Group 4H. Political Science, Government & Legal Institutions**

POLSC 130 Political Theory (3)
POLSC 131 Amer Political Thought (3)(S07)
POLSC 140 Comparative Politics (3)
POLSC 180 Human Rights (3)(SU14)

**Group 4. Psychology**

PSYCH 101 Gen Psych (3)
PSYCH 104 Intro to Social Psych (3)
PSYCH 105 Abnormal Psych (3)(S07)
PSYCH 110 Human Development (3)
PSYCH 111* Psych of Gender (3)(S07)
PSYCH 141 Human Lifespan (3)

**Group 4J. Sociology & Criminology**

ADJU 203 Concepts of Criminal Law (3)(F11)
SOCIO 101 Intro to Sociology (3)
SOCIO 102 Social Problems in US (3)(F99)
SOCIO 125 Sociology of the Family (3)
SOCIO 160 Ethnic & Cultural in Amer (3)
SOCIO 154 Afr-Amer Cultural & Communities (3)
SOCIO 156 Mexican Cultural in the US (3)
SOCISC 105* Women’s Studies (3)(S01)

**AREA 5: Physical and Biological Sciences**

Select at least two courses (7-semester hours).
Choose two courses, one from Group A and one from Group B. In order to fulfill SC, one course from Group A or Group B must be taken as a laboratory course indicated with an asterisk (*).

**5A. Physical Science**

ASTRO 160 Intro to Modern Astro (3)
ASTRO 165/166 Intro to Mod Astro w/Lab (3,3.1)
CHEM 101* Gen Chemistry 1 (5)
CHEM 102* Gen Chemistry 2 (5)
CHEM 112* Org Chemistry 1 (5)
CHEM 113* Org Chemistry 2 (5)
CHEM 122* Surf & React: Organic Chem 1 (4)(SU15)
CHEM 123* Surf & React: Organic Chem 2 (4)(SU16)
CHEM 142 Pre-Gen Chemistry (3)
CHEM 143* Intro College Chemistry (4)
CHEM 144* Fund of Org & Biochem (4)
CHEM 150* Exp of Chem Environ 3(F09)
CHEM 150/156* Explor Our Chem Envirn Lab (3,2)(F09,F07)
EASCI 161* Earth Sci (4)
EASCI 162* Intro to Oceanography, (4)(SU08)
GEOG 101 Physical Geography (3)
GEOG 160* Intro to Geo (3)(F99)
GEOI 161* Physical Geology (4)
GEOI 165 Geology of California (3)
GEOI 166* Historical Geology (4)
METEO 161* Intro to Meteorology (4)(SU09)
NR 200* Soils (3)(F09)
PHPSCI 180* Concept Phys Sci: Hands on Appr. (4)(SU15)
PHYS 101* Gen Phys: Mechanics (4)
PHYS 102* Gen Phys: Waves, Therm, Optics (4)
PHYS 103* Gen Phys: Elect, Mod & Mod Phys (4)
PHYS 142* Mech, Heat & Waves (4)
PHYS 143* Elect, Mod & Opt Atm. & Nucl (4)(SU16)
PHYS 160 Intro to Phys (3)
PHYS 165* Intro Phys (4)(SU16)
PHYS 180* Conplt Phys: Hands-on (4)(SU08)

**5B. Biological Sciences**

ANAT 125* Human Anatomy(4)(SU16)
ANSC 200 Intro to Animal Sci (3)(S06)
ANTHR 101* Biological Anthro (3)
ANTHR 101/105* Biological Anthro w/ Lab (3,1)(F91,F98)
AP 150* Integrative Anat and Phys. (5)(S07)
BIO 101* Biological Principles (4)(SU15)
BIO 111* Gen Biology (4)
BIO 114* Gen Ecology(F)(F10)
BIO 115* Concepts Evolution & Society (3)(S07)
BIO 116* Bio: A Human Prsptcv (F)(F10)
BIO 140* Intro to Marine Bio (4)

**SC. Laboratory Activity**

Take one course from 5A or 5B with a lab as indicated by a single asterisk (*).

**AREA 6A (UC Only) Languages Other than English**

Students transferring to UC are required to demonstrate proficiency (competence) in a language other than English equal to two years of high school study.
Competence may be demonstrated through one of the following mechanisms:

1. Completion of two years of high school coursework (US high school or high school in a country where the language instruction is in English) in a language other than English, with a grade of C minus or better in each course. The two years must be in the same language.
2. Complete one of the following MJC courses with a grade of C or better. The more advanced courses can also be used to satisfy IGETC: 3B requirement.

**For CSU**

The CSU US History, Constitution, and American Ideals (A4) graduation requirement is not part of IGETC.
Courses used to satisfy this requirement may also be listed in Areas 3B and/or 4F. However, CSU campuses have the discretion whether to allow courses used to satisfy the CSU AG graduation requirement to count in both Area 3B/4F and to meet the AB graduation requirements.
In the absence of specific knowledge of a CSU campus policy for double-counting, MJC will certify IGETC using the courses in areas 3B/4F and the CSU AG graduation requirements.

Complete six (6) units prior to transfer. Three (3) units from Group a. and three units from Group b, OR six (6) units from Group c.

**Legend**

- (3) Units earned
- (F97) Students completing this course prior to term (F: Fall, S: Spring, SU: Summer) and year indicated will not be allowed to fulfill this requirement with this course.
- * Denotes a lab course.
- † Indicates that transfer credit may be limited on specific course sequences at the UC. Please consult the UC Transfer Course Agreement available in Student Services, 226 or in the MJC Transfer Center.
- † At the time of publication the course had approval only for the unit value indicated. See a counselor or ASSIST.org for current approval.
### Intradistrict Course Equivalences

Between Modesto Junior College and Columbia College

As members of the Yosemite Community College District, Columbia College and Modesto Junior College have established articulation agreements that may allow students to use specific courses taken at either college to satisfy prerequisites and program requirements at either institution. PLEASE NOTE: Intradistrict equivalencies do not guarantee a course satisfies institutional requirements. Please see a counselor to determine whether you should use an equivalent course to satisfy a requirement or prerequisite. Evaluation of course equivalencies occurs throughout the year. If you are interested in learning whether another course taken at either institution is equivalent to a specific course, you should contact the MJC Evaluators at (209) 575-6033 or (209) 575-6040.

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<td>ENTHR 219</td>
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As of 3/14/17.
MJC Departments and Divisions
Agriculture & Environmental Sciences

INSTRUCTORS:
- Steve Amador
- Maries Boyd
- Todd Conrado
- Troy Gravatt
- Julie Haynes
- Bill Hobby
- John Mendes
- Mike Morales
- Dale Pollard
- Amanda Schnoor

INSTRUCTION IN:
- Agriculture (AG)
- Agricultural Business ((AGEC)
- Agriculture General (AGGE)
- Agriculture Mechanics (AGM)
- Animal Science (ANSC)
- Environmental Horticultural Science (EHS)
- Environmental Sciences (ENSCI)
- Natural Resources (NR)
- Plant Science (PLSC)

AWARDS IN:
- CERT: Advanced Heavy Equipment Technician
- AS: Agricultural Business
- AS, UPE: Agriculture Science, Agricultural Science(s)
- AS, CERT: Agriculture - Sales, Service Technician
- AS: Animal Science
- CERT: Artificial Insemination Technician
- CERT: Basic Heavy Equipment Technician
- CERT: Commercial Floristry Technician
- AS: Crop Science
- AS: Dairy Science
- AS: Environmental Horticultural Science
- CERT: Equine Science
- AS: Fruit Science
- CERT: Heavy Machinery Management
- CERT: Irrigation Construction and Installation
- CERT: Irrigation Design
- AS, CERT: Irrigation Technology
- CERT: Landscape Design
- CERT: Landscape and Maintenance
- AS: Mechanized Agriculture
- CERT: Mechanized Agriculture Technician
- CERT: Nursery Production
- AS: Poultry Science
- AS: Soil Science
- CERT: Large Animal Veterinary Technician
- CERT: Veterinary Technician
- AS: Veterinary Technology
Allied Health

Patrick Bettencourt, Dean
West Campus Glacier Hall, Room 169
(209) 575-6373
www.mjc.edu/alliedhealth

ADMINISTRATIVE SUPPORT STAFF:
Kendis Bettencourt, Administrative Assistant/Program Specialist
Donna Blagg, Administrative Assistant
Martha Lee, Administrative Specialist
Elaine Schuber, Administrative Secretary

INSTRUCTORS:
Anntoinette (Tania) Adkins
Sandra Brunn
Kelly Butler
Shirley Buzzee
Sally Chaffee
Gloria Coats
Chelsea Coulson
Laura DeFreitas
Arny Duffy
Janet Fantazia
Suzanne Fondse
Kimberly Hester
Bonnie Hunt
Leta Love
Jennifer Macias
Jill Ramsey
Danise Rapetti
Catherine Rasmussen
Lisa Riggs
Tonya Robinson

INSTRUCTIONAL SUPPORT STAFF:
Josh Brown, Instructional Support Technician
Juan Garcia, Instructional Support Specialist
Dorothy Peek, Instructional Support Assistant
Karey Potter, Instructional Support Specialist

INSTRUCTION IN:
Home Health Aide (NURSE)
Medical Assisting (MDAST)
Nurse Assistant, Nursing (NURSE)
Nurse Work Experience (NURWE)
Nursing Skills (NURSK)
Respiratory Care (RSCR)

AWARDS IN:
AS, CERT: Medical Assisting (CMA)
SR: Nurse Assistant (CNA)
AS: Nursing: Associate Degree Nursing Program (RN)
PATHWAY: Nursing/LVN to ADN Advanced Placement Pathway (LVN to RN)
AS, BS: Respiratory Care (CRT, RRT)
Arts, Humanities & Communications

Michael Sundquist, Dean
East Campus
Performing and Media Arts Center, Room 205
(209) 575–6081
www.mjc.edu/arts

Administrative Support Staff:
Lori Sammis, Administrative Secretary
Jacquelin Wingett, Administrative Technician
Vacant, Administrative Assistant

Instructional Support Staff:
Lee Bailey, Instructional Support Technician
Yan Yan Chan, Ph.D., Accompanist
John Giorgio, Instructional Support Technician
Ty Helton, Performing Arts Production Specialist
Kevin Saunders, Performing Arts Production Specialist
Anne Shanto, Performing Arts Costume Specialist

Instructors:
Barbara Adams
Paul Berger
Lynette Borrelli
Deborah Barr
Flora Carter
Leslie Collins
David Chapman
Kim Davis
David Dow
Tom Duchescher
Todd Guy
Ryan Guy
Kim Gyuran
Michael Lynch
Erik Maki
Anne Martin
Allan McKissick
Haleh Niazmand
Chad Redwing, Ph.D.
Alejandro Sabre
Jim Sahlman, Ph.D.
Ashah Saleh
Richard Serros, Ph.D.
Taureanna Shimp
Rob Stevenson
Cathryn Tortell
Noah Wilson

Awards in:
AA: Art
AAT: Art History
AAT, AA, CERT: Communication Studies
AA: Dance
SR: Design & Technical Theatre
UPE: Humanities
AAT, AA: Music
AA: Photography
SR: Recording Arts
AAT: Studio Arts
AA: Theatre
AAT: Theatre Arts
SR: Theatre Performance

Instruction in:
Art (ART)
Dance (DANCE)
Humanities (HUMAN)
Music (MUSA, MUSC, MUSE, MUSG, MUSP, MUST)
Photography (ART)
Communication Studies (COMM)
Theatre (THETR)
Behavioral & Social Sciences

INSTRUCTORS:
Bill Anelli
Melanie Berru
Debra Bolter, Ph.D.
Lisa Carlstrom, Ph.D.
Stephen Choi, JD
Shelly Fichtenkort, Ph.D.
Rebecca Ganes
Tristan Hassell, Ph.D.
Greg Hausmann
Cecelia Hudelson
Bobby Hutchison
Eileen Kerr
Susan Kerr, Ph.D.
Lee Kooler
Curtis Martin
Steve Miller, Ph.D.
Eva Mo
Bill Newell, Ph.D.
Kurt Olson
J. Douglas Penn, Ph.D.
Erick Peterson, Ph.D.
Bryan Silva, Ph.D.
Al Smith
Kerri Stephens, Ph.D.

INSTRUCTION IN:
Administration of Justice (ADJU)
Anthropology (ANTHR)
Economics (ECON)
Geography (GEOG)
Gerontology (GERON)
Human Services (HUMSR)
History (HIST)
Philosophy (PHILO)
Political Science (POLSC)

Psychology (PSYCH)
Sociology (SOCIO)
Social Science (SOCSC)

AWARDS IN:
AST, AS: Administration of Justice
AAT: Anthropology
AA, CERT: Chemical Dependency Counseling
AAT: Elementary Teacher Education
SR: Ethnic Studies
AAT: Geography
SR: Gerontology
AAT: History
AA, CERT: Human Services
AAT: Philosophy
AAT: Political Science
AAT: Psychology
SR: Psychosocial Rehabilitation
AAT: Sociology
AS, CERT, SR: Supervisory Management
Business

Dean (Vacant at the time of publication)
East Campus Founders Hall 100
(209) 575–6129
www.mjc.edu/instruction/bbss

Administrative Support Staff:
Ranai Carlton, Administrative Secretary
Clorinda Otte, Administrative Specialist

Instructional Support Staff:
Adam Bava, Inst. Support Assistant
Jason Honer, Instructional Support Aide
Todd Mathias, Instructional Support Aide
Tish Walker, Instructional Support Assistant
Mayra Martinez, Program Technician

Instructors:
Shelly Akiona
Kevin Alavezos
Nancy Backlund
Nadia Isho
Linda Kropp
Dale Phillips
Barbara Salerno
Nancy Sill, Ed.D.
Brian Sinclair
Chris Vaughn
Patricia Wall
Brent Wedge
John Zamora

Instruction in:
Accounting (BUSAD)
Bookkeeping (BUSAD)
Business Administration (BUSAD)
Clerical (OFADM)
Computer Graphics (CMPGR)
Computer Science (CSCI formerly CMPSC)
Marketing (BUSAD)
Office Administration (OFADM)
Real Estate (RLES)
Supervisory Management (SUPR)

Awards in:
AS, CERT: Accounting
CERT: Accounting Clerk
AS, CERT: Bookkeeping
AS, AST: Business Administration
AS: Business Operations Management
AS, CERT: Clerical
CERT: Computer Applications Specialist
AS, CERT: Computer Graphics Applications
AA: Computer Information Systems
CERT: Computer Network Administration
CERT: Computer Network Technician
CERT: Computer Programming Specialist
AS, AST: Computer Science
CERT: International Business
AS: Marketing
CERT, AS: Office Administration
CERT: Office Computer Applications
CERT: Office Support
CERT: Professional Selling
AS, CERT, SR: Real Estate
CERT: Records Management/Data-Entry Specialist
CERT: Retail Management
AS, CERT: Supervisory Management
Counseling & Student Learning

Martha Robles, Dean
MJC East Campus, Student Services Building 226
Phone: (209) 575-6080
MJC West Campus, Yosemite Hall Room 118
Phone: (209) 575-7799
Website: www.mjc.edu/counseling

ADMINISTRATIVE SUPPORT STAFF:
Grace Conde, Administrative Secretary
Brieanna Cuellar, Administrative Assistant
Judith Martinez, Counseling Center Coordinator
Terri Ramirez, Administrative Assistant

COUNSELORS AND INSTRUCTORS:
Kim Bailey
Leticia Cavazos
Vie Champa
Charles Cipponeri
Pam Crittenden
Elizabeth David
Alida Garcia
Marcos Garcia
Tina Giron
Ariana Gonzalez
Dana Hanlon
Eric Ivory
Dimitri Keriotis
Margaret Kingori
Hanna Louie
Theresa Maldonado-Ballance
Joe Nornellini
Tracey Potts
Claudia Ramirez
Belen Robinson
Mary Silva
Gabriel Tovar

INSTRUCTION IN:
College Skills (COLSK)
Guidance (GUIDE)
Study Skills (STSK)
Family & Consumer Sciences

Patrick Bettencourt, Dean
West Campus Glacier Hall, Room 169
(209) 575-6343
www.mjc.edu/instruction/fcs

Administrative Support Staff:
Sarah Ford, Child Development Specialist
Vacant, Administrative Specialist

Instructors:
Deborah Laffrenchini
Brandi Snider
Linda Stephan

Instruction in:
Child Development (CLDDV)
Foods & Nutrition (FDNTR)
Family Life (FAMLF)

Awards in:
CERT: Associate Teacher
AS: Child Development
AST: Early Childhood Education
CERT: Early Interventionist
CERT: Master Teacher
CERT: Site Supervisor
CERT: Teacher
General Studies

Vice President of Instruction
Morris Memorial 205A
(209) 575-6058
www.mjc.edu/instruction/office

Administrative Support Staff:
Kelly Addington, Administrative Technician
Amanda Cannon, Accreditation/Assessment Process Specialist
Ginny Bounyavong, Instruction Office Specialist
Letitia Senechal Miller, Articulation Officer
Michael Smedshammer, Ph.D., Instructional Design Coordinator
Heather Townsend, Curriculum Process Specialist
Pat Wallace, Executive Secretary
Donna Yarnal, Administrative Secretary

Awards In:
AA: General Studies,
   Emphasis in Humanities
AA: General Studies,
   Emphasis in Language & Rationality
AA: General Studies,
   Emphasis in Natural Sciences
AA: General Studies,
   Emphasis in Social & Behavioral Science
CERT: CSU-GE Pattern
CERT: IGETC Pattern
Literature & Language Arts

INSTRUCTORS:
Michael Akard  Laura Manzo
Bruce Anders  Shirley Miranda
James Beggs, Ph.D.  Jeffrey Netto, Ph.D.
Nathan Bento  Jenny Netto
Sara Berger  Optimism One
Christopher Briggs  Tony Pacheco
Shelley Circle  Adrienne Peek
Marcos Conteras, Ph.D.  Samuel Piestorff
Deborah Gilbert, Ph.D.  Theresa Rojas, Ph.D.
Nita Gopal  Lawrence Scheg
Sarah Hawes  Daniel Schmidt
Annaliese Hausler-Akpovi  Zaid Shlah
Timothy Hobert  Denise E. Smith
Chandra Howard  Gabriele Steiner
Andrew Kranzman, Ph.D.  Theresa Stovall, Ed.D.
Ruth Luman  Theron Westrope, Ph.D.
Emily Malsam  Jason Wohlstadter, Ph.D.

INSTRUCTION IN:
English (ENGL)
English Language Instruction for College (ELIC)
English for Life and Work (ELW)
French (FREN)
German (GERM)
Italian (ITAL)
Reading (READ)
Sign Language (SIGN)
Spanish (SPAN)
Spelling (SPELL)

AWARDS IN:
AAT: English
AA: University Preparation, Language Studies
AAT: Spanish
Physical, Recreation, and Health Education

Patrick Bettencourt, Dean
East Campus PE Office, Room 106
(209) 575-6269
www.mjc.edu/instruction/physicaleducation/

Nick Stavrianoudakis,
Athletic Director
East Campus, PE Office, Room 105
(209) 575-6835
www.mjc.edu/athletics/

ADMINISTRATIVE SUPPORT STAFF:
Colleen Lemburg, Administrative Secretary
Shamiran Pourelyas, Administrative Specialist

INSTRUCTIONAL SUPPORT STAFF:
Mary Jo Brasil, Women's Athletic Equipment Technician
Ron McGuire, Men's Athletic Equipment Technician

INSTRUCTORS:
Steve Aristotelous
Shawn Black
Zeb Brayton
Paul Brogan
Jamie DeRollo
Eric Fischer
Michael Girardi
Milan Motroni
Cheryl Mulder
Mary Shea
David Shrock, Ed.D.
Demitrius Snaer
Jim Stevens
Rusty Stivers

AWARDS IN:
AS: Athletic Training/Sports Medicine
AA, AAT: Kinesiology

INSTRUCTION IN:
Health Education (HE)
Recreation (REC)
Athletics (PE)
Physical Education (PE, PEA, PEC, PEM, PEW, PEVM, PEVW)
Public Safety

Pedro Mendez, Dean
West Campus Sierra Hall 255
(209) 575-6332
www.mjc.edu/instruction/teched/publicsafety

Ron Cripe, Director of Regional Fire Training Center
(209) 548-5701

ADMINISTRATIVE SUPPORT STAFF:
Alycia Murguia, Administrative Specialist

INSTRUCTIONAL SUPPORT STAFF:
Sophal Prum, Interim Fire Science Facility Technician

INSTRUCTION IN:
- Fire Science (FSCI)
- Fire Technology (FTECH)
- Emergency Medical Service (EMS)

AWARDS IN:
- SR: Emergency Medical Technician
- SR: Fire Academy
- AS, C: Fire Science

The MJC Regional Fire Training Center represents a unique partnership between the community college and area fire agencies and emergency medical responders in Stanislaus and San Joaquin Counties. The Center is fully accredited offering programs that meet EMT-1, Fire Academy and Paramedic needs as well as degree options in these fields.
Science, Mathematics & Engineering

Laura Maki, PH.D., Dean
West Campus, Science Community Center,
Room 134
(209) 575-6173
www.mjc.edu/instruction/sme

Administrative Support Staff:
Wendy Long, Administrative Secretary
Bill Chase, Administrative Specialist

Instructional Support Staff:
Sarah Davis, Instructional Support Technician-Life Science
Michael Garcia, Instructional Support Technician
Devin Jones, Instructional Support Technician
Sarah Mesenheimer-Johnson, Instructional Support Specialist
Matt Page, Instructional Support Specialist -Chemistry

Great Valley Museum:
Arnold Chavez, GVM Director
Molly Flemate, Museum Specialist
Samuel Leatherman, Museum Technician

Instructors:
Austin Adams
Michael Adams
Tina Akers-Porter
Daniel Alcantra
David Boley
Joseph Caddell, Ph.D.
Daniel Chase
Paul Crepe
Sarah Curl
Teri Curtis
Gagandeep Dhaliwal
Hardev Dhillon
Robert Droual, Ph.D.
Jacqueline Faris
Dennis Gervin, Ph.D.
Catherine Greene
Garry Hayes
Noah Hughes
Suzanne Hulsey
Erynn Lucas, Ph.D.
Derek Madden, Ph.D.
David Martin, Ph.D.
Elizabeth McInnes
Ross McKenzie
Kenneth Meidl
Heidi Meyer
Jaymes Michalena
Holly Nash-Rule, Ph.D.
Thomas Nomof
Kamran Payvar
Yolande Petersen
Angela Pignotti, Ph.D.
Mary Roslaniec, Ph.D.
Ashley Yu

Instruction In:
Anatomy (ANAT)
Anatomy & Physiology (AP)
Astronomy (ASTRO)
Biology (BIO)
Botany (BOT)
Chemistry (CHEM)
Earth Science (EASCI)
Engineering (ENGR)
Geology (GEOL)
Mathematics (MATH)
Meteorology (METEO)
Microbiology (MICRO)
Physical Science (PHSCI)
Physics (PHYS)
Physiology (PHYSO)
Zoology (ZOOL)

Awards In:
AST: Geology
AST: Mathematics
AST: Physics
AS: Biological Sciences
AS,AST: Chemistry
AS: Earth Sciences
Technical Education

Pedro Mendez, Dean
West Campus Sierra Hall 255
(209) 575-6332
www.mjc.edu/teched

Administrative Support Staff:
Judy Wagner, Administrative Secretary

Instructional Support Staff:
Macario Ramirez, Instructional Support Specialist

INSTRUCTORS:
Joseph Akpovi
Jeffrey Beebe
Adrian DeAngelis
Jim Hovem
Jon Kropp
John Peterson
Randy Thoe

Eric Turner
Timothy Vaughan
Gerald Wray

INSTRUCTION IN:
Autobody (AUBDY)
Automotive Technology (AUTEC)
Computer Electronics (CMPET)
Electronics Technology (ELTEC)
Logistics and Supply Chain (LOGST)
Machine Tool Technology (MACH)
Sheet Metal (SM)
Welding (WELD)

AWARDS IN:
CERT: Autobody Collision Repair
AS, SR: Autobody Refinishing
SR: Automation Technician
CERT: Automotive Diagnosis

CERT: Automotive Brakes and Suspension
CERT: Automotive Engines and Transmissions
CERT: Automotive Service
AS: Automotive Technician
SR: CNC Operator
SR: CNC Programmer
AS, CERT: Computer Electronics
SR: Electrical Installer
CERT: Electrician
AS, CERT: Industrial Electronics
SR: Logistics Associate
AS, CERT, SR: Logistics and Supply Chain Management
AS: Machine Tool Technology
CERT: Machine Tool Technology 1
SR: Maintenance Machinist 1
CERT: Maintenance Machinist 2
CERT: Manufacturing Technology (Interdisciplinary)
SR: Pipe Welding
AS: Welding
SR: Welding: Design & Fabrication
SR: Welding: Gas Metal Arc Welding and Gas Tungsten Arc Welding
A: AGRICULTURAL BUSINESS

Programs and awards are listed in alphabetical order from A-Z. The awards listed under each program are listed by the type of award in this order: AS, AA, CERT, SR.

Title of the Educational Program
Type of Award (degree, certificate, or skills recognition)
Name of the award as it will appear on award and transcript
Courses required for the award
The preferred sequence of courses within a 4-semester program. NP means “no preference.”
Elective courses (students can be given options) between or among courses in the electives
Total number of units required for that major. Note: Does not include total units for associate degree.

Programs and courses:

**Required total units for associate degree.

Total number of units required for prefix of courses within a major.

Name of the award as it will appear on award and transcript
Type of Award
Educational Program
Title of the award
Name of the award as it will appear on award and transcript

Program Learning Outcomes:
Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate proficiency in accounting procedures using a double-entry bookkeeping system.
2. Analyze and prepare reports, presentations, and other information pertaining to managerial procedures.
3. Describe the economic significance of California Agriculture and its relationship to the global economy.
4. Explain supply and demand as it relates to local and regional agriculture business industries.
5. Demonstrate the ability to make logical business decisions based on the analysis of business trends locally, regionally, and globally.
6. Determine profitability using computers, the Internet, and other technology as they relate to agri-business.
7. Recognize world markets and describe their effect on local agriculture economies.

Major Requirements:
To earn an associate in science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 100) or the University Preparation Pathway (p. 97) which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS
AG 115 [1] Introduction to Agricultural Education and Careers ........................................ 1
AG 346A-0 [NP] Work Experience ** (for a total of 4 units) ........................................ 4 OR
AG 249* [NP] Agriculture Internship** ........................................................................... 2

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS
PLSC 200 [1,2] Introduction to Plant Science .............................................................. 3
AGS 200 [1,2] Introduction to Animal Science ............................................................ 3
NR 200 [NP] Soils ......................................................................................................... 4
AGM 200 [NP] Introduction to Mechanical Technology .............................................. 3

III. MAJOR REQUIRED COURSES - COMPLETE 12 UNITS
AGEC 200 [2] Agricultural Accounting and Analysis .................................................. 3
AGEC 210 [NP] Elements of Agricultural Economics .................................................. 3
AGEC 220 [2,4] Agricultural Business Management .................................................... 3
AGEC 225 [NP] Agriculture Computer Applications ..................................................... 3

IV. ELECTIVE COURSES - COMPLETE 4 UNITS
Any 200 series Agriculture course with a laboratory. No more than 1 unit in a 100 level Agriculture class.

TOTAL UNITS IN A.S. MAJOR ................................................................................. 30

**Required
The Accounting program is an intensive study of accounting theory as it applies to contemporary business environment. Accounting is a vital element of business success. Accountants record business operations and, after analyzing company performance, make recommendations to increase efficiencies and overall company success. Beginning courses concentrate on recording, classifying, and reporting financial information resulting from business transactions. The student then learns the financial structure of business and analysis of financial information for management decision making. Double entry accounting, ledger and journal techniques and accounting cycles are emphasized. The use of computers in accounting is also an integral part of the program. Courses are offered during day and evening hours with some classes taught in a hybrid or fully online format to accommodate student schedules. Degrees and Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. Interested students should consult Business Administration faculty advisors.

A.S. DEGREE: ACCOUNTING

The A.S. in Accounting Degree is designed for students entering into the accounting field at the entry level. If you wish to pursue professional certification (i.e., Certified Public Accountant and/or Certified Management Accountant), you should plan to earn at least a bachelor’s degree in Business Administration with a major in Accounting. To earn an Associate in Science degree, the student must complete the NIC Associate Degree Requirements in addition to the following coursework.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment in an entry-level position in the accounting field.
3. Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle through financial statements.

REQUIRED COURSES - COMPLETE 19 UNITS

BUSAD 201 [2, 3] Financial Accounting .................................................4
BUSAD 202 [3, 4] Managerial Accounting ..............................................4
BUSAD 203 [3, 4] Computer Accounting ..............................................3
BUSAD 319 [3, 4] Payroll Accounting ..................................................3
BUSAD 336 [2, 3] Tax Accounting .......................................................3

ELECTIVE COURSES - COMPLETE A MINIMUM OF 6 UNITS

BUSAD 218 [2] Business Law ...............................................................4
BUSAD 248 [1] Introduction to Business ............................................3 OR
BUSAD 240 [1] Principles of Management .......................................3
BUSAD 230 [1] Personal Finance .........................................................3
BUSAD 300 [1] Machine Calculation ..................................................2
BUSAD 50 [1] Business Computations .............................................3
BUSAD 310 [1] Bookkeeping 1 .........................................................3
CSCI 201 [1] General Computer Literacy ........................................3 OR
OFADM 256 [1] Introduction to Word Processing ..............................1 AND

OFADM 259 [1] Introduction to Spreadsheet Software ....................1 AND
OFADM 261 [1] Introduction to Databases ........................................1

TOTAL UNITS IN A.S. MAJOR ............................................................ 25

CERTIFICATE OF ACHIEVEMENT: ACCOUNTING

The Accounting Certificate is designed for students entering into the accounting field at the entry level. If you wish to pursue professional certification (i.e., Certified Public Accountant and/or Certified Management Accountant), you should plan to earn at least a bachelor’s degree in Business Administration with a major in Accounting.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment in an entry-level position in the accounting field.
3. Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 24 UNITS

BUSAD 201 [1] Financial Accounting ..................................................4
BUSAD 202 [2] Managerial Accounting ..............................................4
BUSAD 50 [1] Business Computations .............................................3
BUSAD 300 [1] Machine Calculation ..................................................2
BUSAD 319 [2, 3] Payroll Accounting ................................................3
BUSAD 336 [2, 3] Tax Accounting .......................................................3

ELECTIVE COURSES - COMPLETE 3-4 UNITS

BUSAD 218 [1] Business Law ...............................................................4
BUSAD 230 [1] Personal Finance ........................................................3
BUSAD 274 [1] Human Resources Management ..............................3 OR
BUSAD 248 [1] Introduction to Business ............................................3 OR
BUSAD 240 [1] Principles of Management .......................................3
BUSAD 310 [1] Bookkeeping 1 .........................................................3
CSCI 201 [1] General Computer Literacy ........................................3 OR
OFADM 256 [1] Introduction to Word Processing ..............................1 AND
OFADM 259 [1] Introduction to Spreadsheet Software ........................1 AND
OFADM 261 [1] Introduction to Databases ........................................1

TOTAL UNITS IN CERTIFICATE OF ACHIEVEMENT AWARD .................... 27-28

CERTIFICATE OF ACHIEVEMENT: ACCOUNTING CLERK

The Accounting Clerk Certificate is designed for students planning to enter the job market in an entry level accounting clerk/front office position. Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. Interested students should consult Business Administration or Office Administration faculty advisors.
PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Utilize technology to perform general office procedures.
2. Obtain entry level employment as an accounting clerk.
3. Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.

REQUIRED COURSES - COMPLETE 15.5-18.5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 301</td>
<td>Beginning Keyboarding</td>
<td>1.5 OR</td>
</tr>
<tr>
<td>OFADM 303</td>
<td>Keyboarding for Speed and Accuracy</td>
<td>0.5</td>
</tr>
<tr>
<td>OFADM 256</td>
<td>Introduction to Word Processing</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 259</td>
<td>Introduction to Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>BUSAD 200</td>
<td>Spreadsheet Skills for Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>OFADM 314</td>
<td>Office Procedures &amp; Technologies</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 310</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 203</td>
<td>Computer Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 300</td>
<td>Machine Calculation</td>
<td>2 OR</td>
</tr>
<tr>
<td>OFADM 375</td>
<td>10-Key on the Computer</td>
<td>1</td>
</tr>
<tr>
<td>BUSAD 50</td>
<td>Business Computations</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ..........15.5 - 18.5

Administration of Justice PROGRAM
(209) 575-6129

Modesto Junior College offers a comprehensive Administration of Justice program. The curriculum addresses basic knowledge and skills required in the criminal justice area. The two-year college program is designed to prepare candidates for employment or transfer to a four-year educational institution offering a major in one of the criminal justice fields. Satisfactory completion of the requirements will lead to the Associate in Arts degree or the Associate in Science degree. Classes are offered both day and evening. The college cooperates with the Administration of Justice Advisory Committee.

All courses are open to individuals who have been admitted to the college and who meet the prerequisites, unless specifically exempted by statute. Courses which involve the handling of firearms, mace, or baton are not open to individuals who have been convicted of a felony or who are mental patients. (Penal Code Section 12021 firearms, 12403.7 chemical agents, 12020 batons, and Welfare and Institutions Code 8100-01-02-03.)

Prior to use of a firearm in any course, each student must sign a declaration to the effect that he/she is not prohibited from such use by Penal Code Section 12021. Students are also advised that some of the Administration of Justice courses include actual or simulated experiences which require considerable agility and physical ability.

All candidates for degrees in Administration of Justice must consult with an Administration of Justice advisor to select the courses most appropriate for meeting both the MJC Associate Degree Requirements and the current demands of employing agencies and transfer institutions.

A.S.-T DEGREE: ADMINISTRATION OF JUSTICE

Modesto Junior College offers a comprehensive Administration of Justice program. The curriculum addresses basic knowledge and skills required in the criminal justice area. The Associate of Science in Administration of Justice for Transfer Degree is designed to prepare candidates for transfer to a California State University offering a major in administration of justice/criminal justice. Course work is offered evidence, community relations corrections and law. Some potential careers are in the Administration of Justice field Correctional Officer, Local Police Officer, Local Deputy Sheriff, State Highway Patrol Officer, Investigator, Private Detective, Private Security Guard, Probation Officer, and Parole Officer. All courses are open to individuals who have been admitted to the college and who meet the prerequisites, unless specifically exempted by statute. Courses which involve the handling of firearms are not open to individuals who have been convicted of a felony or who are mental patients. (Penal Code Sections 29800 – 29825 and Welfare and Institutions Code 8100). Prior to use of a firearm in any course, each student must submit to a live scan check of their finger prints.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Explain the roles that the three components of the administration of justice system play in society and how these components interact with one another to provide public safety.
2. Define the role of policing and recognize importance of building and maintaining favorable community relations.
3. Interpret, assess and compare competing types of evidence and data.
4. Identify the legal and societal restrictions placed by society on the administration of justice system in carrying out its role or providing for the public safety of society.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER DEGREE:

1. A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. All courses within the major must be completed with a C or better or “P” (Pass).
2. Completion of 60 semester CSU-transferable units using the CSU GE Breadth or the IGETC pattern.
3. Exactly 60 semester units are required for the degree.

REQUIRED CORE - 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJU 201</td>
<td>[NP] Introduction to Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 203</td>
<td>[NP] Concepts of Criminal Law</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST A: TWO COURSES - 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJU 202</td>
<td>[NP] Principles/Procedures of Justice System</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 204</td>
<td>[NP] Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 212</td>
<td>[NP] Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 233</td>
<td>[NP] Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 232</td>
<td>[NP] Juvenile Justice Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: TWO COURSES - MINIMUM OF 6 UNITS

Any List A Courses Not Already Used

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIO 101</td>
<td>[NP] Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 105</td>
<td>[NP] Intro Statistics for the Social &amp; Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>[NP] General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 205</td>
<td>[NP] Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 210</td>
<td>[NP] Communications in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 213</td>
<td>[NP] Patrol Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 215</td>
<td>[NP] Introduction to Firearms</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 216</td>
<td>[NP] Adv. Firearms and Range Application</td>
<td>3</td>
</tr>
<tr>
<td>ADJU 217</td>
<td>[NP] Substance Abuse</td>
<td>3</td>
</tr>
</tbody>
</table>

154
A. DEGREE: ADMINISTRATION OF JUSTICE

Modesto Junior College offers a comprehensive Administration of Justice program. The curriculum addresses basic knowledge and skills required in the criminal justice area. The two-year college program is designed to prepare candidates for employment or transfer to a four-year educational institution offering a major in various criminal justice fields. Satisfactory completion of the requirements will lead to the Associate in Science degree. Classes are offered both day and evening. The college cooperates with the Administration of Justice Advisory Committee. All courses are open to individuals who have been admitted to the college and who meet the prerequisites, unless specifically exempted by statute. Courses which involve the handling of firearms are not open to individuals who have been convicted of a felony or who are mental patients. (Penal Code Sections 29800—29825 and Welfare and Institutions Code 8100). Prior to use of a firearm in any course, each student must submit to a live scan check of their finger prints. All candidates for degrees in Administration of Justice should consult with an Administration of Justice advisor to select the courses most appropriate for meeting both the MIC Associate Degree Requirements and the current demands of employing agencies and transfer institutions.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Assess the American legal system and how it applies to today’s criminal justice profession.
2. To compose academic papers demonstrating critical thinking skills.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 18 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ADJU 201</td>
<td>3</td>
<td>Introduction to Administration of Justice</td>
</tr>
<tr>
<td>ADJU 202</td>
<td>3</td>
<td>Principles/Procedures of Justice System</td>
</tr>
<tr>
<td>ADJU 203</td>
<td>3</td>
<td>Concepts of Criminal Law</td>
</tr>
<tr>
<td>ADJU 204</td>
<td>3</td>
<td>Legal Aspects of Evidence</td>
</tr>
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<td>ADJU 205</td>
<td>3</td>
<td>Community Relations</td>
</tr>
<tr>
<td>ADJU 212</td>
<td>3</td>
<td>Criminal Investigation</td>
</tr>
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</table>

ELECTIVE COURSES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJU 210</td>
<td>3</td>
<td>Communications in Criminal Justice</td>
</tr>
<tr>
<td>ADJU 213</td>
<td>1</td>
<td>Patrol Procedures</td>
</tr>
<tr>
<td>ADJU 215</td>
<td>1</td>
<td>Introduction to Firearms</td>
</tr>
<tr>
<td>ADJU 216</td>
<td>1</td>
<td>Advanced Firearms and Range Application</td>
</tr>
<tr>
<td>ADJU 217</td>
<td>2</td>
<td>Substance Abuse</td>
</tr>
<tr>
<td>ADJU 222</td>
<td>1</td>
<td>Profiling Terrorism</td>
</tr>
<tr>
<td>ADJU 232</td>
<td>2</td>
<td>Juvenile Justice Procedures</td>
</tr>
<tr>
<td>ADJU 234</td>
<td>3</td>
<td>Crime Causation</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED FOR A.S.-T DEGREE .................................................. 60

A.S. MAJOR

PROGRAMS
2. Assess supply and demand as it relates to local and regional agriculture business industries.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the MJC Associate Degree Requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which includes completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115 *</td>
<td>Introduction to Agricultural Education</td>
<td>1</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>Agriculture Internship</td>
<td>2 OR</td>
</tr>
<tr>
<td>AG 259ABCD</td>
<td>Agricultural Work Experience</td>
<td>1-4</td>
</tr>
</tbody>
</table>

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>AGM 200</td>
<td>Introduction to Agricultural Business</td>
<td>3</td>
</tr>
</tbody>
</table>

III. MAJOR REQUIRED COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGE 200</td>
<td>Agricultural Accounting and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AGE 210</td>
<td>Elements of Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGE 220</td>
<td>Agricultural Business Management</td>
<td>3</td>
</tr>
<tr>
<td>AGE 225</td>
<td>Agriculture Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>AGE 280</td>
<td>Agricultural Sales and Service</td>
<td>3</td>
</tr>
<tr>
<td>AGM 215</td>
<td>Machinery Management</td>
<td>3</td>
</tr>
<tr>
<td>AGM 220</td>
<td>Industrial/Agricultural Machinery</td>
<td>3</td>
</tr>
<tr>
<td>AGM 235</td>
<td>Irrigation and Drainage</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 201</td>
<td>Beef Cattle Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 202</td>
<td>Swine Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 203</td>
<td>Sheep Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 207</td>
<td>Equine Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 214</td>
<td>Livestock Feeding and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 220</td>
<td>Dairy Industry/Dairy Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 230</td>
<td>Poultry Science</td>
<td>3</td>
</tr>
<tr>
<td>EHS 210</td>
<td>Introduction to Environmental Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EHS 280</td>
<td>Principles of Floral Art and Design</td>
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</tr>
<tr>
<td>PLSC 205</td>
<td>Field Crops</td>
<td>3</td>
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<tr>
<td>PLSC 215</td>
<td>Vegetable Crops</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 230</td>
<td>Fruit Science</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 250</td>
<td>Plant Nutrition and Fertilizer</td>
<td>3</td>
</tr>
<tr>
<td>AG 305</td>
<td>Supervision in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AG 249</td>
<td>Agriculture Internship</td>
<td>2</td>
</tr>
<tr>
<td>AG 101</td>
<td>Leadership in Agriculture B</td>
<td>2</td>
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</table>

TOTAL UNITS IN A.S. MAJOR: 30

*Required
**Internship/Work Experience must be Agriculture related

Note: For section 1: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259AB.

A.S. DEGREE: AGRICULTURE: SALES, SERVICE

The student will learn step-by-step sales techniques, stage presence, self-evaluation of voice, habits, abilities in sales, and understanding of sales career. This program will help students make decisions as to whether or not they are qualified in sales, and prepare them for a sales career if they choose that vocation. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Evaluate market trends and create a marketing plan for an agriculture product or commodity.
2. Organize and prepare reports, presentations, and financial documents other information pertaining to agriculture business.
3. Create a customer profile and employ a sales strategy based on that profile.

MAJOR REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115 *</td>
<td>Introduction to Agricultural Education</td>
<td>1</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>Agriculture Internship</td>
<td>2</td>
</tr>
<tr>
<td>AG 259ABCD</td>
<td>Agricultural Work Experience</td>
<td>1-4</td>
</tr>
</tbody>
</table>

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 200</td>
<td>Introduction to Agricultural Business</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 200</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
</tbody>
</table>

III. MAJOR REQUIRED COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGE 200</td>
<td>Agricultural Accounting and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AGE 210</td>
<td>Elements of Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGE 215</td>
<td>Agricultural Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AGE 280</td>
<td>Agricultural Sales and Service</td>
<td>3</td>
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</table>

IV. ELECTIVE COURSES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 285</td>
<td>Agricultural Communications</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 220</td>
<td>Agricultural Business Management</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>Agriculture Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Fundamentals of Public Speaking</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR: 29

*Required
**Work experience/interns must be agriculture related.

Note: For Section 1: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259AB.
CERTIFICATE OF ACHIEVEMENT:
AGRICULTURE: SALES, SERVICE TECHNICIAN

The student will learn step-by-step sales techniques, stage presence, self-evaluation of voice, habits, abilities in sales, and understanding of sales career. This program will help students make decisions as to whether or not they are qualified in sales, and prepare them for a sales career if they choose that vocation. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Evaluate market trends and create a marketing plan for an agricultural product or commodity.
2. Organize and prepare reports, presentations, and financial documents pertaining to agriculture business.
3. Create a customer profile and employ a sales strategy based on that profile.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115 *</td>
<td>1</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>2</td>
</tr>
<tr>
<td>AG 259ABCD**</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>3</td>
</tr>
<tr>
<td>AGM 200</td>
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</table>

III. MAJOR REQUIRED COURSES - COMPLETE 18 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGE 200</td>
<td>3</td>
</tr>
<tr>
<td>AGE 210</td>
<td>3</td>
</tr>
<tr>
<td>AGE 215</td>
<td>3</td>
</tr>
<tr>
<td>AGE 280</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 102</td>
<td>3</td>
</tr>
<tr>
<td>AG 285</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................................................. 32

*Required
**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

Agricultural Mechanics
PROGRAM (MECHANIZED AGRICULTURE)
(209) 575-6200

In this program, students will develop skills and knowledge to enter the mechanized agriculture field. Contact the division office in the Agriculture Building for advising assistance.

A.S. DEGREE: IRRIGATION TECHNOLOGY

This program will provide students with the young developing technical skills of the irrigation industry. Training and skill development include: the study of plant-soil-water relationships, water management and application, system design, evaluation and installation, pumping systems, and drainage. After successful completion of the program, graduates will be able to enter the workforce as irrigation managers, pump testers and repair technicians, system designers, system installers, ditch tenders, and other utility personal. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:
1. Analyze plant-soil-water relationships and determine irrigation requirements for optimum plant growth and crop yield.
2. Design and install an appropriate irrigation system that provides the crop water requirements in an efficient and cost effective manner.
3. Evaluate an existing irrigation system and make recommendations to improve distribution uniformity and efficiency.
4. Evaluate irrigation pump performance and make recommendations to improve overall pumping plant efficiency.

PROGRAM REQUIREMENTS

To earn an Associate in Science Degree in this major the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include the completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>AG 115</td>
<td>1</td>
</tr>
<tr>
<td>AG 249</td>
<td>2</td>
</tr>
<tr>
<td>AG 259ABCD</td>
<td>1 - 4</td>
</tr>
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</table>

II AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>PLSC 200</td>
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<tr>
<td>ANSC 200</td>
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<tr>
<td>NR 200</td>
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III. MAJOR REQUIRED COURSES - COMPLETE 15 UNITS

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<tr>
<td>AGM 236</td>
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<tr>
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</tr>
<tr>
<td>AGM 238</td>
<td>3</td>
</tr>
<tr>
<td>AGM 239</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR .......................................................... 29
A.S. DEGREE: MECHANIZED AGRICULTURE

In this program, students will develop skills and knowledge to enter the mechanized agriculture field. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Fabrication Option: Design and fabricate agriculture equipment effectively.
2. Fabrication Option: Select proper fabrication equipment for various construction and/or repair situations.
3. Power Option: Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Power Option: Repair basic power equipment effectively.

MAJOR REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115 *</td>
<td>1</td>
<td>Introduction to Agricultural Education &amp; Careers</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>4</td>
<td>Agriculture Internship</td>
</tr>
<tr>
<td>AG 259ABCD *</td>
<td>1 - 4</td>
<td>Agricultural Work Experience</td>
</tr>
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</table>

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>PLSC 200</td>
<td>3</td>
<td>Introduction to Plant Science</td>
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<tr>
<td>ANSC 200</td>
<td>3</td>
<td>Introduction to Animal Science</td>
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<tr>
<td>NR 200</td>
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<td>Soils</td>
</tr>
<tr>
<td>AGE 225</td>
<td>3</td>
<td>Agriculture Computer Applications</td>
</tr>
<tr>
<td>AGE 210</td>
<td>3</td>
<td>Elements of Agricultural Economics</td>
</tr>
<tr>
<td>AGE 200</td>
<td>3</td>
<td>Agricultural Accounting and Analysis</td>
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III. AGRICULTURE MAJOR COURSES - COMPLETE 12 UNITS

<table>
<thead>
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<tr>
<td>AGM 200</td>
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<td>Introduction to Mechanical Technology</td>
</tr>
<tr>
<td>AGM 210</td>
<td>3</td>
<td>Agricultural Welding</td>
</tr>
<tr>
<td>AGM 262</td>
<td>3</td>
<td>Hydraulics/Pneumatics</td>
</tr>
<tr>
<td>AGM 280</td>
<td>3</td>
<td>Mobile Machinery Hydraulic Systems</td>
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</tbody>
</table>

FABRICATION OPTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>AGM 251</td>
<td>4</td>
<td>Farm Construction and Materials</td>
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</table>

POWER OPTION

<table>
<thead>
<tr>
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<th>Units</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AGM 215</td>
<td>3</td>
<td>Machinery Management</td>
</tr>
<tr>
<td>AGM 240</td>
<td>3</td>
<td>Truck and Tractor Power Trains</td>
</tr>
</tbody>
</table>

IV. AGRICULTURE ELECTIVE COURSES - COMPLETE 4-5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>AGM 211</td>
<td>3</td>
<td>Advanced Agricultural Welding</td>
</tr>
<tr>
<td>AGM 214</td>
<td>3</td>
<td>Equipment Service and Safety</td>
</tr>
<tr>
<td>AGM 225</td>
<td>3</td>
<td>Principles of Electrical Wiring</td>
</tr>
<tr>
<td>AGM 230</td>
<td>2</td>
<td>Field Surveying</td>
</tr>
<tr>
<td>AGM 241</td>
<td>3</td>
<td>Diesel Engine Principles</td>
</tr>
<tr>
<td>AGM 289</td>
<td>3</td>
<td>Principles of Power Mechanics/Small Engines</td>
</tr>
</tbody>
</table>

ANY 200 LEVEL AGRICULTURE COURSE INCLUDING THOSE THAT ARE LISTED, BUT NOT USED, IN AREA II ABOVE.

TOTAL UNITS IN A.S. MAJOR .................................................. 30 - 31

*Required
**Internship/Work Experience must be Agriculture Related.
Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 254-B.

CERTIFICATE OF ACHIEVEMENT:
ADVANCED HEAVY EQUIPMENT TECHNICIAN

In this program, students will develop additional skills and knowledge to enter the diesel mechanics field. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.
2. Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.
3. Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each Course must be completed with a grade of C or better.

I. MAJOR REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 215</td>
<td>3</td>
<td>Machinery Management</td>
</tr>
<tr>
<td>AGM 221</td>
<td>3</td>
<td>Equipment Diagnosis &amp; Repair</td>
</tr>
<tr>
<td>AGM 240</td>
<td>3</td>
<td>Truck and Tractor Power Trains</td>
</tr>
<tr>
<td>AGM 242</td>
<td>3</td>
<td>Diesel Engine Overhaul</td>
</tr>
<tr>
<td>AGM 245</td>
<td>3</td>
<td>Diesel Engine Fuel Systems &amp; Diagnosis</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................. 15

CERTIFICATE OF ACHIEVEMENT:
BASIC HEAVY EQUIPMENT TECHNICIAN

In this program, students will develop additional skills and knowledge to enter the diesel mechanics field. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.
2. Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.
3. Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement the student must complete the following coursework. Each Course must be completed with a grade of C or better.
I. MAJOR REQUIRED COURSES
AGM 210  [NP]  Agricultural Welding .................................................3
AGM 214  [NP]  Equipment Service and Safety ..................................1
AGM 241  [NP]  Diesel Engine Principles ..............................................3
AGM 243  [NP]  Heavy Machinery Electrical Systems ........................3
AGM 280  [NP]  Mobile Machinery Hydraulic Systems .........................3
AGM 289  [NP]  Principles of Power Mechanics/Small Engines .................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ...............16

CERTIFICATE OF ACHIEVEMENT:
HEAVY MACHINERY MANAGEMENT

In this program, students will develop skills and knowledge for the successful management of heavy equipment. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.
2. Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.
3. Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.

CERTIFICATE REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. MAJOR REQUIRED COURSES - COMPLETE 16 UNITS
AGM 200  [NP]  Introduction to Mechanical Technology .....................3
AGM 214  [NP]  Equipment Service and Safety ..................................1
AGM 215  [NP]  Machinery Management ............................................3
AGEC 200  [NP]  Agriculture Accounting and Analysis .........................3
AGEC 220  [NP]  Agricultural Business Management ..........................3
AGEC 225  [NP]  Agriculture Computer Applications ............................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ...............16

CERTIFICATE OF ACHIEVEMENT:
IRRIGATION CONSTRUCTION AND INSTALLATION

This program will prepare students for jobs in the irrigation construction and installation industry. Training and skill development include; piping identification and installation, equipment operation, cost estimating, and plan interpretation. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this program, the student should be prepared to:

1. Perform complete irrigation system installation from the pumping system to water discharge.
2. Develop accurate cost estimates for both irrigation components and labor costs.
3. Operate installation equipment such as tractors, backhoes, trenchers, graders and laser levels in a safe efficient manner.

PROGRAM REQUIREMENTS
To earn a Certificate in this major, the student must complete the requirements below:

REQUIRED COURSES - COMPLETE 13 UNITS
AGM 210  [NP]  Agricultural Welding .................................................3
AGM 235  [T]  Irrigation and Drainage .................................................3
AGM 214  [NP]  Equipment Service and Safety ..................................1
AGM 237  [NP]  Irrigation Wells, Pumps, and Drive Systems .................3
AGM 239  [NP]  Irrigation System Installation and Maintenance .............3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ...............13

CERTIFICATE OF ACHIEVEMENT:
IRRIGATION DESIGN

This program will prepare students for jobs in irrigation design. Training and skill development include; AutoCAD fundamentals, system hydraulics, site development and material selection. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this program, the student should be prepared to:

1. Collect site data in regards to size, soil type, elevation differences, crop water needs, and water source in order to provide irrigation system recommendations.
2. Design a sprinkler irrigation system that is consistent with industry standards.
3. Accurately draw an irrigation system using AutoCAD software which is considered the industry standard.

PROGRAM REQUIREMENTS
To earn a Certificate in this major, the student must complete the requirements below:

REQUIRED COURSES - COMPLETE 12 UNITS
AGM 235  [1]  Irrigation and Drainage .................................................3
AGM 238  [NP]  Irrigation System Design .............................................3
AGEC 225  [NP]  Agriculture Computer Applications ............................3
AGM 237  [NP]  Irrigation Wells, Pumps, and Drive Systems .................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ...............12
CERTIFICATE OF ACHIEVEMENT: IRRIGATION MANAGEMENT

This program will prepare students for jobs in the irrigation management industry. Training and skill development include; water management, plant-soil relationships, salinity management, system evaluation and improvements. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:

1. Analyze plant/soil/water relationships and determine irrigation requirements for optimum plant growth and crop yield.
2. Manage on-farm irrigation systems in an efficient cost effective manner.
3. Develop irrigation schedules that optimize crop growth while conserving water.

PROGRAM REQUIREMENTS

To earn a Certificate in this major, the student must complete the requirements below:

REQUIRED COURSES - COMPLETE 15 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 235</td>
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<td>NR 200</td>
<td>NP</td>
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<tr>
<td>AGEC 225</td>
<td>NP</td>
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</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ........................ 15

CERTIFICATE OF ACHIEVEMENT: IRRIGATION TECHNOLOGY

This program will provide students with the quickly evolving technical skills of the irrigation industry. Training and skill development include; the study of plant-soil-water relationships, water management and application, system design, evaluation and installation, pumping systems, and drainage. After successful completion of the program, graduates will be able to enter the workforce as irrigation managers, pump testers and repair technicians, system designers, system installers, ditch tenders and other utility personal. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:

1. Analyze plant/soil/water relationships and determine irrigation requirements for optimum plant growth and crop yield.
2. Design and install an appropriate irrigation system that provides the crop water requirements in an efficient and cost effective manner.
3. Evaluate an existing irrigation system and make recommendations to improve distribution uniformity and efficiency.
4. Evaluate irrigation pump performance and make recommendations to improve overall pumping plant efficiency.

PROGRAM REQUIREMENTS

To earn a Certificate in this major, the student must complete the requirements below:

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>AG 115</td>
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</tr>
<tr>
<td>AG 249</td>
<td>2</td>
</tr>
<tr>
<td>AG 259ABC</td>
<td>1 - 4</td>
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AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<td>NR 200</td>
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III. MAJOR REQUIRED COURSES - COMPLETE 15 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>AGM 235</td>
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<tr>
<td>AGM 236</td>
<td>3</td>
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<tr>
<td>AGM 237</td>
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<tr>
<td>AGM 238</td>
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<td>AGM 239</td>
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</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ......................... 29

CERTIFICATE OF ACHIEVEMENT: MECHANIZED AGRICULTURE TECHNICIAN

In this program, students will develop skills and knowledge to enter the mechanized agriculture field. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Fabrication Option: Design and fabricate agriculture equipment effectively.
2. Fabrication Option: Select proper fabrication equipment for various construction and/or repair situations.
3. Power Option: Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Power Option: Repair basic power equipment effectively.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a C or better.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>AG 115</td>
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<tr>
<td>AG 249</td>
<td>2</td>
</tr>
<tr>
<td>AG 259ABC</td>
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II. REQUIRED COURSES FOR CERTIFICATE - COMPLETE 15 UNITS

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<tr>
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<td>AGM 241</td>
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III. ELECTIVE COURSES FOR CERTIFICATE - COMPLETE 10 UNITS

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<td>AGEC 280</td>
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<td>AGM 214</td>
<td>1</td>
</tr>
<tr>
<td>AGM 225</td>
<td>1</td>
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</tbody>
</table>
A.S. DEGREE: AGRICULTURAL SCIENCE

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify and appraise the educational requirements for career opportunities in the agriculture industry.
2. Analyze and communicate effectively core issues in the various fields of agriculture.
3. Integrate leadership aptitudes into one-on-one and group settings.

MAJOR REQUIREMENTS

To earn an Associate in Science degree, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>AG 249 **</td>
<td>[4] Agriculture Internship</td>
<td>2 OR</td>
</tr>
<tr>
<td>AG 259ABCD**</td>
<td>[NP] Agricultural Work Experience</td>
<td>1-4</td>
</tr>
</tbody>
</table>

II. AGRICULTURE SCIENCE BREATH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PLSC 200</td>
<td>[NP] Introduction to Plant Science</td>
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</tr>
<tr>
<td>ANSC 200</td>
<td>[NP] Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>[NP] Soils</td>
<td>3</td>
</tr>
<tr>
<td>AGM 200</td>
<td>[NP] Introduction to Mechanical Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>[NP] Agriculture Computer Applications</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>[NP] Elements of Agricultural Economics</td>
<td>3 OR</td>
</tr>
<tr>
<td>AGEC 200</td>
<td>[NP] Agricultural Accounting and Analysis</td>
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III. AGRICULTURE MAJOR COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>AGM 210</td>
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<tr>
<td>EHS 280</td>
<td>[NP] Principles of Floral Art and Design</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 201</td>
<td>[NP] Beef Cattle Science</td>
<td>3 OR</td>
</tr>
<tr>
<td>ANSC 202</td>
<td>[NP] Swine Science</td>
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</tr>
<tr>
<td>ANSC 203</td>
<td>[NP] Sheep Science</td>
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</tr>
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<td>ANSC 230</td>
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<td>3</td>
</tr>
<tr>
<td>EHS 210</td>
<td>[NP] Introduction to Environmental Horticulture Science</td>
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IV. AGRICULTURE MAJOR ELECTIVE COURSES - COMPLETE 7 UNITS

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>[NP] Introduction to Plant Science</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 30

*Required

**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

TOTAL UNITS IN A.S. MAJOR ..................................................................... 30

*Required

**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

A.S. DEGREE: AGRICULTURAL SCIENCES

ABOUT THIS EMPHASIS

This A.S. is designed as a University Preparation, Emphasis in Agricultural Sciences degree. The University Preparation degree, distinctive of the University Preparation "pathway," is designed to prepare you for transfer to a California State University (CSU) or University of California (UC) campus. While completion of this program does not guarantee admission to a specific college or university, it allows you to complete preparatory courses that may apply toward the area of study in which you plan to major at your targeted transfer university, and to complete general education requirements required by CSU and UC for bachelor’s (baccalaureate) degree. It entails an interdisciplinary approach to learning that will allow you to simultaneously meet your unique transfer goals and fulfill lower division requirements for bachelor’s degree at many CSU or UC institutions. You will do this by completing a rigorous general education experience with either the CSU-GE or IGETC general education patterns, in addition to completing an emphasis in a particular field or program. How does it work? Each emphasis has been crafted to help you prepare for upper-division coursework in a baccalaureate major at a four-year university. By fulfilling the requirements of the MJC emphasis, you will also be completing some or all lower-division preparation for baccalaureate major at the university. ASSIST (www. assist.org) is a statewide database of recorded transfer agreements between community colleges and universities. You are advised to use ASSIST in selecting courses from the emphasis to ensure that the coursework applies to your baccalaureate major. University Preparation with Emphasis Prepare for transfer with some majors at MJC Not every program at MJC offers a degree designed for transfer-oriented students. However, many programs do offer AA or AS majors which function like the emphasis for transfer-oriented students. Those majors are included on the following pages to help you make the right decision when determining the best transfer-oriented path of study.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Give specific examples of careers in the general agriculture area and briefly describe the prerequisites for these careers.
2. Describe the basic workforce readiness skills needed to be successful in agriculture careers today.
3. Describe the importance of the agriculture industry to the local, state and national economy.

EMPHASIS REQUIREMENTS

To earn an Associate Degree with this emphasis, the student must complete the requirements detailed in the University Preparation Pathway (p. 103) which include completion of the requirements below. See advisor for selection of courses.

REQUIRED COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 210</td>
<td>[NP] Elements of Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>[NP] Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>[NP] Soils</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 200</td>
<td>[NP] Introduction to Plant Science</td>
<td>3</td>
</tr>
</tbody>
</table>
# AGRICULTURE SCIENCE / ANIMAL SCIENCE

## Animal Science Program

**PROGRAM**
(209) 575-6200

This award provides the student with practical, hands-on experience in equine science.

### A.S. DEGREE: ANIMAL SCIENCE

#### PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Employ the scientific method to solve agriculture problems.
2. Demonstrate safe work habits.
3. Identify careers in the Animal Agriculture Industry and describe the skills needed for those careers.
4. Describe basic management techniques used by the Animal Science industry to produce wholesome, safe, environmentally responsible animal products.

#### MAJOR REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

### I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115*</td>
<td>1</td>
<td><a href="#">Introduction to Agricultural Education &amp; Careers</a></td>
</tr>
</tbody>
</table>

### II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200 [NP]</td>
<td></td>
<td>Introduction to Plant Science</td>
</tr>
<tr>
<td>NR 200 [NP]</td>
<td></td>
<td>Soils</td>
</tr>
<tr>
<td>AGM 200 [NP]</td>
<td></td>
<td>Introduction to Mechanical Technology</td>
</tr>
<tr>
<td>AGEC 225 [NP]</td>
<td></td>
<td>Agriculture Computer Applications</td>
</tr>
<tr>
<td>AGEC 210 [NP]</td>
<td></td>
<td>Elements of Agricultural Economics</td>
</tr>
<tr>
<td>AGEC 200 [NP]</td>
<td></td>
<td>Agricultural Accounting and Analysis</td>
</tr>
</tbody>
</table>

### III. AGRICULTURE MAJOR COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 200 [NP]</td>
<td></td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>ANSC 201 [NP]</td>
<td></td>
<td>Beef Cattle Science</td>
</tr>
<tr>
<td>ANSC 202 [NP]</td>
<td></td>
<td>Swine Science</td>
</tr>
<tr>
<td>ANSC 203 [NP]</td>
<td></td>
<td>Sheep Science</td>
</tr>
<tr>
<td>ANSC 214 [NP]</td>
<td></td>
<td>Livestock Feeding and Nutrition</td>
</tr>
<tr>
<td>ANSC 215 [NP]</td>
<td></td>
<td>Animal Health and Sanitation</td>
</tr>
<tr>
<td>ANSC 220 [NP]</td>
<td></td>
<td>Dairy Industry/Dairy Science</td>
</tr>
<tr>
<td>ECON 101 [NP]</td>
<td></td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>EHS 210 [NP]</td>
<td></td>
<td>Introduction to Environmental Horticulture Science</td>
</tr>
<tr>
<td>MATH 111 [NP]</td>
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<td>Applied College Algebra</td>
</tr>
<tr>
<td>MATH 134 [NP]</td>
<td>4</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>MATH 138 [NP]</td>
<td></td>
<td>Calculus for Business &amp; Social Sciences</td>
</tr>
<tr>
<td>NR 222 [NP]</td>
<td></td>
<td>Native Tree and Shrub Identification</td>
</tr>
<tr>
<td>PLSC 205 [NP]</td>
<td></td>
<td>Field Crops</td>
</tr>
<tr>
<td>PLSC 215 [NP]</td>
<td></td>
<td>Vegetable Crops</td>
</tr>
<tr>
<td>PLSC 230 [NP]</td>
<td></td>
<td>Fruit Science</td>
</tr>
<tr>
<td>PLSC 250 [NP]</td>
<td></td>
<td>Plant Nutrition and Fertilizer</td>
</tr>
<tr>
<td>PLSC 260 [NP]</td>
<td></td>
<td>Plant Disease Control</td>
</tr>
</tbody>
</table>

### TOTAL UNITS REQUIRED IN A.S. MAJOR: 18 UNITS

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# A. S. Degree: Dairy Science

## PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe management techniques used by the dairy industry.
2. Utilize a variety of technologies in the dairy industry.

## MAJOR REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

### I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 249 **</td>
<td>4</td>
<td>Agriculture Internship</td>
</tr>
<tr>
<td>AG 259A-D [NP]</td>
<td></td>
<td>Agricultural Work Experience</td>
</tr>
</tbody>
</table>

### II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200 [NP]</td>
<td></td>
<td>Introduction to Plant Science</td>
</tr>
<tr>
<td>NR 200 [NP]</td>
<td></td>
<td>Soils</td>
</tr>
<tr>
<td>AGM 200 [NP]</td>
<td></td>
<td>Introduction to Mechanical Technology</td>
</tr>
<tr>
<td>AGEC 225 [NP]</td>
<td></td>
<td>Agriculture Computer Applications</td>
</tr>
<tr>
<td>AGEC 210 [NP]</td>
<td></td>
<td>Elements of Agricultural Economics</td>
</tr>
<tr>
<td>AGEC 200 [2,3,4]</td>
<td></td>
<td>Agricultural Accounting and Analysis</td>
</tr>
</tbody>
</table>

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**Note:**

- *Required
- **Internship/Work Experience must be agriculture related.
- For Section I: Agriculture Career Courses, students must take AG 115. Students need an additional 4 units in this section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.
A: Animal Science

III. Agriculture Major Courses - Complete 9 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 220</td>
<td>Dairy Industry/Dairy Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 221</td>
<td>Dairy Cattle Selection &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 224</td>
<td>Dairy Feeds &amp; Feeding</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 226</td>
<td>Dairy Breeding &amp; Selection</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. Agriculture Major Electives - Complete 7 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 215</td>
<td>Animal Health and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 217</td>
<td>Advanced Breeding &amp; Artificial Insemination</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 222</td>
<td>Milk Production &amp; Technology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 227</td>
<td>Advanced Dairy Cattle Selection &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 228</td>
<td>Dairy Management</td>
<td>3</td>
</tr>
<tr>
<td>AG 249</td>
<td>Veterinary Technician Exam</td>
<td>4</td>
</tr>
</tbody>
</table>

ANY 200 SERIES AGRICULTURE COURSE NOT TAKEN ABOVE
1 UNIT MAXIMUM FROM ANY 300 SERIES AGRICULTURE COURSE

TOTAL UNITS IN A.S. MAJOR: 30

A.S. Degree: Poultry Science

In this program the student will develop skills and knowledge sufficient to enter the poultry industry or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

Program Learning Outcomes

Upon satisfactory completion of this award, the student should be prepared to:

1. Employ the scientific method to solve agriculture problems.
2. Describe basic techniques used by the poultry science industry to produce wholesome, safe, environmentally responsible animal products.

Major Requirements

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. Agriculture Career Courses - Complete 5 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td>Introduction to Agricultural Education &amp; Careers</td>
<td>1</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>Agriculture Internship</td>
<td>2</td>
</tr>
<tr>
<td>AG 259A-D**</td>
<td>Agricultural Work Experience</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**Internship/Work Experience must be Agriculture related.

II. Agriculture Science Breadth Courses - Complete 9 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>2</td>
</tr>
<tr>
<td>AGM 200</td>
<td>Introduction to Mechanical Technology</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>Agriculture Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>Elements of Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 200</td>
<td>Agricultural Accounting and Analysis</td>
<td>3</td>
</tr>
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</table>

III. Agriculture Major Courses - Complete 12 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 230</td>
<td>Poultry Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 214</td>
<td>Livestock Feeding and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 235</td>
<td>Poultry Diseases and Housing</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 215</td>
<td>Animal Health and Sanitation</td>
<td>3</td>
</tr>
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</table>

Agriculture Science Breadth Courses - Complete 9 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 200</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 200</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>Elements of Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>Agriculture Computer Applications</td>
<td>3</td>
</tr>
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</table>

IV. Agriculture Major Electives - Complete 4 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>AG 249</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>AG 259A-BCD</td>
<td></td>
<td>1-4</td>
</tr>
</tbody>
</table>

A.S. Degree: Veterinary Technology

This program will provide students with the quickly evolving technical skills of the veterinary industry. Training and skill development include: the study of anatomy and physiology, disease management and prevention, client communication, animal restraint and behavior recognition, equipment maintenance, pharmaceutical calculations and emergency procedures in animal medicine. After successful completion of the program, graduates will be able to enter the workforce as veterinary assistants, lab assistants, kennel assistants, diagnostic equipment assistants, office personal and Registered Veterinary Technician Exam applicants. Contact the division office in the Agriculture Building for advising assistance.

Program Learning Outcomes

Upon satisfactory completion of this program, the student should be prepared to:

1. Analyze the relationship of anatomy and physiology as it relates to animal health and disease prevention.
2. Describe the importance of proper sanitation and zoonotic disease prevention in a veterinary practice.
3. Demonstrate common surgical, dental and restraint techniques in a veterinary practice.
4. Identify the role that a veterinary technician plays in the industry and how that role varies depending on the specialty of a practice.

Program Requirements

To earn an Associate in Science Degree in this major the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include the completion of the requirements below.

Agriculture Career Courses - Complete 4 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>AG 249</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>AG 259A-BCD</td>
<td></td>
<td>1-4</td>
</tr>
</tbody>
</table>

Agriculture Science Breadth Courses - Complete 9 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 200</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PLSC 200</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>NR 200</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AGEC 210</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
MAJOR REQUIRED COURSES - COMPLETE 8 UNITS

ANSC 251  [1] Veterinary Pharmacy Procedures ................................. 2
ANSC 253  [3] Veterinary Laboratory Procedures .................................. 1
ANSC 254  [2] Veterinary Medical Office Procedure .............................. 2

CHOOSE ONE OPTION BELOW: SMALL ANIMAL OR LARGE ANIMAL OPTION - COMPLETE 9 UNITS

SMALL ANIMAL SCIENCE OPTION - COMPLETE 9 UNITS

ANSC 250  [NP] Veterinary Physiology, Anatomy, & Terminology ............ 3
ANSC 255  [NP] Preparation for Veterinary Surgical and Dental Assistance ...... 3
ANSC 256  [NP] Veterinary Assistance & Nursing: Emergency Procedures ........ 1
ANSC 257  [NP] Veterinary Assistance and Nursing: Animal Handling .......... 2

LARGE ANIMAL SCIENCE OPTION - COMPLETE 9 UNITS

ANSC 270  [NP] Veterinary Large Animal Physiology, Anatomy & Terminology ... 3
ANSC 271  [NP] Large Animal Veterinary Surgical and Dental Assistant .......... 3
ANSC 272  [NP] Veterinary Large Animal Emergency Procedures ............... 1
ANSC 273  [NP] Veterinary Large Animal Handling ................................ 2

*Note: For Section 1: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

TOTAL UNITS IN A.S. MAJOR ........................................................................ 30

CERTIFICATE OF ACHIEVEMENT:

ARTIFICIAL INSEMINATION TECHNICIAN

The student will develop skills and knowledge sufficient enough to collect bull semen, artificially inseminate cows, and to evaluate pedigrees. The student will also develop skills in basic salesmanship. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Give specific examples of careers in the artificial insemination industry.
2. Describe technologies used in the artificial insemination industry.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

AG 115  * [1] Introduction to Agricultural Education & Careers .................. 1
AG 249  ** [2] Agriculture Internship .................................................... 2
AG 259A-D  ** [NP] Agricultural Work Experience .................................. 1 - 4

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 6 UNITS

AGEC 200  [NP] Agricultural Accounting and Analysis ............................ 3
AGEC 280  [NP] Agricultural Sales and Service ....................................... 3

III. MAJOR REQUIRED COURSES - COMPLETE 13 UNITS

ANSC 201  [NP] Beef Cattle Science ....................................................... 3
ANSC 217  [NP] Advanced Breeding & Artificial Insemination .................. 4
ANSC 226  [NP] Dairy Breeding & Selection ........................................... 4

IV. ELECTIVE COURSES - COMPLETE 3 UNITS

ANSC 224  [NP] Dairy Feeds & Feeding ................................................... 3 OR
ANSC 214  [NP] Livestock Feeding and Nutrition .................................... 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................... 27

*Required
**Internship/Work Experience must be Agriculture related

This program will develop entry-level jobs skills in equine husbandry and housing. Training and skill set development include practical handling and safety skills, equipment handling and care, equine anatomy and nutrition, as well as breeding and reproduction skills. The program is designed for students that wish to develop practical skills in the area of equine science.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Design and implement a complete nutritional program for equines in various life stages.
2. Demonstrate advanced equine handling skills.
3. Describe current trends in equine reproduction, mare and foal care.
4. Demonstrate competent riding skills in various situations using various disciplines.
5. Using current equine industry standards, demonstrate management skills in the operation of an equine facility.
6. Describe ideal equine conformation and subsequent ailments associated with deviations from such conformation.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement in Equine Science, the student must complete a minimum of 16 units of course work. Each course must be completed with a "C" or better.

REQUIRED COURSES - COMPLETE 14 UNITS

ANSC 207  [1] Equine Science ................................................................. 3
ANSC 243  [2] Equine Fitting & Showing ................................................. 2
ANSC 258  [1] Beginning Horsemanship ................................................. 3
ANSC 265  [1] Introduction to Colt Training ............................................. 3

ELECTIVE COURSES - CHOOSE ONE COURSE:

ANSC 200  [1] Introduction to Animal Science .................................... 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............. 16 - 17
CERTIFICATE OF ACHIEVEMENT: LARGE ANIMAL VETERINARY TECHNICIAN

This program will develop skills in large animal veterinary technology as well as assist students with the qualifications set by the state of California for the Registered Veterinary Technician License. Training and skill set development include: practical handling and safety skills, equipment handling and care, large animal anatomy and nutrition, as well as diagnostic procedure and surgical assistance techniques. The program is designed for students that wish to develop practical skills in the area of large animal veterinary technology.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the role of an RVT in a large animal practice.
2. Demonstrate advanced large animal handling and restraint skills.
4. Demonstrate the use and maintenance of industry relative diagnostic equipment.
5. Using current veterinary industry standards, describe standard medical treatments for common large animal ailments.
6. Describe functional anatomy in various large animal species and how this anatomy dictates different medical procedures.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – COMPLETE 17 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 270 [1]</td>
<td>Veterinary Large Animal Physiology, Anatomy &amp; Terminology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 251 [2]</td>
<td>Veterinary Pharmacy Procedures</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 253 [1]</td>
<td>Veterinary Laboratory Procedures</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 254 [2]</td>
<td>Veterinary Medical Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 271 [2]</td>
<td>Large Animal Veterinary Surgical and Dental Assistant</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 272 [NP]</td>
<td>Veterinary Large Animal Emergency Procedures</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 273 [2]</td>
<td>Veterinary Large Animal Handling</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.......................... 17

CERTIFICATE OF ACHIEVEMENT: VETERINARY TECHNICIAN

In this program, the student will develop skills and knowledge for entry level employment in the field of veterinary technology. This field may include small and exotic animal care, veterinary laboratory procedures and surgical techniques as well as x-ray technology, specialty animals, large animals and veterinary office procedures. This program will also assist the student in qualification for the California Registered Veterinary Technician Examination by providing the educational requirements mandated by the Veterinary Medical Board.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Give specific examples of careers in the Animal Agriculture industry and briefly describe the prerequisites for these careers.
2. Describe basic management techniques used by the Animal Science industry to produce wholesome, safe, environmentally responsible animal products.
3. Utilize a variety of technologies to gain information about the Animal Agriculture industry and apply these technologies in the analysis of specific situations.
4. Describe the economic significance of a specific area studied in animal science and explain the social/cultural benefits provided by that industry.

CERTIFICATE REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – COMPLETE 17 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 250 [2]</td>
<td>Veterinary Physiology, Anatomy, &amp; Terminology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 251 [3]</td>
<td>Veterinary Pharmacy Procedures</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 253 [NP]</td>
<td>Veterinary Laboratory Procedures</td>
<td>1</td>
</tr>
<tr>
<td>ANSC 254 [4]</td>
<td>Veterinary Medical Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>ANSC 255 [3]</td>
<td>Preparation for Veterinary Surgical and Dental Assistance</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 257 [NP]</td>
<td>Veterinary Assistance &amp; Nursing: Animal Handling</td>
<td>2</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – (NOT REQUIRED FOR CERTIFICATE)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 111 [NP]</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>ANSC 55 [NP]</td>
<td>Introduction to Veterinary Technology</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200 [NP]</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 215 [NP]</td>
<td>Animal Health and Sanitation</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.......................... 17

*NOTE: To become a registered veterinary technician, students must meet specific requirements established by the AVMA (American Veterinary Medical Association). Please contact the MJC Agriculture Division office for advising.

Anthropology
PROGRAM
(209) 575-6129

A.A.-T DEGREE: ANTHROPOLOGY

ABOUT THIS AWARD

The Associate in Arts in Anthropology for Transfer degree includes lower division coursework that is required for transfer. Anthropology examines the broad conditions and experiences of becoming and being human through a myriad of lenses: genetics and evolution, comparative primate anatomy and behavior, the bioarchaeological record, language forms, and culture. The Associate in Arts in Anthropology for Transfer degree will provide foundational training for students in anthropological concepts, methods of inquiry, and theories of human variation, change and adaptation. All academic subfields of anthropology are emphasized at MJC, including biological anthropology, cultural anthropology, linguistic anthropology and archaeology. Students will learn how to utilize and apply anthropology and its scientific and humanistic modalities. Across broad coursework, students will discover the uniqueness of being biologically human and engage the role of culture and language in the histories and politics of an interconnected, global world.
The Associate in Arts in Anthropology for Transfer degree is intended for students who plan to complete a bachelor's degree in Anthropology at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or Anthropology. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE A.A. DEGREE IN ANTHROPOLOGY FOR TRANSFER:

1. A minimum of 18 semester units or 27 quarter units in the major with a grade of C or better or "P" (Pass) while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework.
2. Completion of 60 semester or 90 quarter CSU-transferable units using the CSU-GE Breadth or the IGETC pattern.
3. Exactly 60 semester units or 90 quarter units are required for the degree.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the basic concepts, methods of inquiry, and the theories of biological, cultural, linguistic and archaeological anthropology.
2. Explain how the scientific method serves as a foundation for understanding the observed variation, change and adaptation of humans and their environments.
3. Use anthropological perspectives to interpret evolutionary, historical and contemporary issues.

REQUIRED CORE: (9 UNITS)

| ANTHR 101 [NP] Biological Anthropology .......... | 3 |
| ANTHR 102 [NP] Cultural Anthropology .......... | 3 |
| ANTHR 130 [NP] Archaeology & Cultural Prehistory | 3 |

LIST A: (4 UNITS)

| ANTHR 104 [NP] Linguistic Anthropology .......... | 3 |
| ANTHR 105 [NP] Biological Anthropology Lab .......... | 1 |
| MATH 134 [NP] Elementary Statistics .......... | 4 |

LIST B: SELECT ONE TO TWO (3-4 UNITS)

Any list A course not already used. ........................................ 3-4

AREA 1: SCIENCE METHODS

| PHIL 107 [NP] Philosophy of Science .......... | 3 |
| PSYCH 102 [NP] Research Methods .......... | 3 |

AREA 2: SCIENCES

| ANAT 125 [NP] Human Anatomy .......... | 4 |
| EASC 161 [NP] Earth Science .......... | 4 |
| GEOL 161 [NP] Physical Geology .......... | 4 |

LIST C: 3 UNITS

Any list A or B course not already used. ........................................ 3

| ANTHR 107 [NP] Forensic Anthropology Introduction .......... | 3 |
| ANTH 150 [NP] Native People of North America .......... | 3 |
| ANTH 174 [NP] Anthropology Summer Field Studies .......... | 3 |

TOTAL UNITS REQUIRED IN A.A.-T MAJOR ........................................ 19-24

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED .................. 20-22

UNITS REQUIRED FOR IGETC/CSU BREADTH .................. 37-39

ELECTIVES (AS NEEDED) ........................................ 20-26

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE .......................... 60

* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.

Program (209) 575-6081

A.A.-T DEGREE: ART HISTORY

The Associate in Arts in Art History for Transfer degree is intended for students who plan to complete a bachelor's degree in Art History or other related subjects (Humanities, History, Philosophy, Interdisciplinary Studies etc.) at a CSU campus. Coursework will provide students with the study and critical analysis of great works of human expression and imagination will allow students to identify the role of the visual arts in traditional and contemporary culture, and further prepare them for the meaningful interpretation of artworks.

The Associate in Arts in Art History for Transfer is intended for students who plan to complete a bachelor's degree in Studio Arts at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate preparedness to successfully continue studies in Art History or a related subject at an upper-division level.
2. Learn the major monuments and masterpieces of the great art periods from the prehistoric to the Modern era discern how man expresses himself through these works.
3. Demonstrate and understanding of the chronology of art developments and the vocabulary terms employed in the discussion of these developments.
4. Evaluate the basic qualities of an artwork, i.e. style, composition, color, technique, and medium.
5. Evaluate original works of art by visiting significant art museums in the San Francisco Bay Area or elsewhere.
6. Reproduce, render, and interpret ideas in a variety of media through participation in studio arts classes.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
(2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better. A "P" (Pass) is not acceptable.

REQUIRED CORE: (COMPLETE 9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Basic Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 164</td>
<td>History of Art 1: Prehistoric to Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ART 165</td>
<td>History of Art 2: Renaissance to Contemporary</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST A: (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 169</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: (SELECT ONE: 3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 102</td>
<td>Introduction to Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Ceramics 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Color and 2-D Foundation Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 125</td>
<td>Color and 3-D Foundation Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Sculpture 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 147</td>
<td>Painting 1 (in Acrylic)</td>
<td>3</td>
</tr>
<tr>
<td>ART 148</td>
<td>Painting 1 (in Oil)</td>
<td>3</td>
</tr>
<tr>
<td>ART 170</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 173</td>
<td>Basic Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST C: (SELECT ONE: 3-5 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANY COURSE FROM LIST A OR B NOT ALREADY USED</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 162</td>
<td>History of Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 163</td>
<td>History of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 168</td>
<td>History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>FREN 101</td>
<td>French 1</td>
<td>5</td>
</tr>
<tr>
<td>GERM 101</td>
<td>German 1</td>
<td>5</td>
</tr>
<tr>
<td>ITAL 101</td>
<td>Italian 1</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 101</td>
<td>Spanish 1</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED IN A.A.-T MAJOR: 18-20

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED: 6-9

UNITS REQUIRED FOR IGETC/CSU-GE BREADTH: 37-39

CSU TRANSFERABLE ELECTIVES (AS NEEDED): 9-12

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE: 60

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.

A.A.-T DEGREE: STUDIO ARTS

The Associate in Arts in Studio Arts for Transfer degree focuses on the theory and practice of visual arts skills based on a foundation of both traditional and contemporary practices, with curriculum geared toward transfer to a CSU. This program will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Studio Arts. Coursework will provide students with a variety of two- and three-dimensional media in which to develop their capacity to solve problems in new and creative ways. The study and critical analysis of great works of human expression and imagination will allow students to identify the role of the visual arts in traditional and contemporary culture, and further prepare them for meaningful participation in society as visual artists.

The Associate in Arts in Studio Arts for Transfer degree is intended for students who plan to complete a bachelor's degree in Studio Arts at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE A.A. DEGREE IN STUDIO ARTS FOR TRANSFER:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not acceptable for courses in the major.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate preparedness to successfully continue studies in Studio Art at an upper division level.

2. Reproduce, render, and interpret ideas in a variety of media through observation.

3. Plan, design, and produce original works of art.

4. Make informed assessments of quality and effectiveness in works of art, including their own.

5. Identify and distinguish various historical periods of art and trends of contemporary practice.

REQUIRED CORE: (12 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Basic Drawing 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Color and 2-D Foundation Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 125</td>
<td>Color and 3-D Foundation Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 165</td>
<td>History of Art 2: Renaissance to Contemporary</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST A: (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 163</td>
<td>History of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 164</td>
<td>History of Art 1: Prehistoric to Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ART 169</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Basic Drawing 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 147</td>
<td>Painting 1 (in Acrylic)</td>
<td>3</td>
</tr>
<tr>
<td>ART 148</td>
<td>Painting 1 (in Oil)</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Ceramics 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Sculpture 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 102</td>
<td>Introduction to Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ART 170</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 173</td>
<td>Basic Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED IN A.A.-T MAJOR: 24

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED: 6

GENERAL EDUCATION (CSU-GE or IGETC) UNITS: 37-39

CSU TRANSFERABLE ELECTIVES (AS NEEDED): 3-5

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE: 60

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.
A.A. DEGREE: ART

The comprehensive MJC Art Program offers several areas of concentration: art history, ceramics, computer graphics, drawing, design, sculpture, water color painting, oil painting, museum studies, and photography. The program is designed to include pre-professional and professional courses, personal enrichment in specific art areas, and classes for students who plan an art-related career. Art courses help students develop a capacity for visual analysis and the ability to solve problems in new and creative ways.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate preparedness to successfully continue studies in art at an upper division level.
2. Reproduce, render, and interpret in a variety of media through observation.
3. Plan, design, and produce original works of art.
4. Make informed assessments of quality and effectiveness in works of art, including their own.
5. Identify and distinguish various historical periods of art.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below. Students who plan to transfer to a four-year college or university should consult with an Art faculty advisor and a counselor to ensure that all required transfer courses are completed.

REQUIRED COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>1</td>
</tr>
<tr>
<td>ART 124</td>
<td>2</td>
</tr>
<tr>
<td>ART 164</td>
<td>NP</td>
</tr>
<tr>
<td>ART 165</td>
<td>NP</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE AT LEAST 2 UNITS

<table>
<thead>
<tr>
<th>Area</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design and Drawing Area</td>
<td>ART 121 [2]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 123 [2]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 125 [3]</td>
<td>3</td>
</tr>
<tr>
<td>Three-Dimensional Art Area</td>
<td>ART 108 [1]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 140 [1]</td>
<td>3</td>
</tr>
<tr>
<td>Painting and Printmaking Area</td>
<td>ART 147 [3]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 148 [2]</td>
<td>3</td>
</tr>
<tr>
<td>Art History and Appreciation Area</td>
<td>ART 162 [NP]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 163 [NP]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 164 [NP]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 165 [NP]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 168 [1]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 169 [NP]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 170 [1]</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 173 [NP]</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.A. MAJOR ........................................... 20

A. A. DEGREE: PHOTOGRAPHY

Photography is both an artistic and a technical vocation. This program is designed to develop the student’s aesthetic and technical abilities by working with design, composition, lighting, various types of image content, photographic processes, image critique, and presentation techniques.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate preparedness to successfully continue studies in art at an upper division level.
2. Represent and interpret aspects of their physical and social environment in a variety of photography-related media.
3. Plan, design, and produce original works of art.
4. Make informed assessments of quality and effectiveness in works of art, including their own.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below. Courses should be selected with the assistance of a Photography faculty advisor. Students who plan to transfer to a four-year college or university should consult with a Photography faculty advisor to ensure that all required transfer courses are completed.

REQUIRED COURSES - COMPLETE 18 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 124 [2]</td>
<td>Color and 2-D Foundation Design</td>
</tr>
<tr>
<td>ART 168 [1]</td>
<td>History of Photography</td>
</tr>
<tr>
<td>ART 170 [1]</td>
<td>Basic Photography</td>
</tr>
<tr>
<td>ART 175 [3]</td>
<td>Color Photography</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE AT LEAST 2 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 102 [NP]</td>
<td>Introduction to Computer Graphics</td>
</tr>
<tr>
<td>ART 163 [NP]</td>
<td>History of Modern Art</td>
</tr>
<tr>
<td>ART 165 [NP]</td>
<td>History of Art 2: Renaissance to Contemporary</td>
</tr>
<tr>
<td>ART 169 [NP]</td>
<td>Survey of Asian Art</td>
</tr>
<tr>
<td>ART 192 [NP]</td>
<td>Professional Practices</td>
</tr>
</tbody>
</table>

MINIMUM UNITS IN A.A. MAJOR ........................................... 20-21

*Photography courses are listed under ART courses starting on page 263.

Athletic Training/Sports Medicine PROGRAM
(209) 575-6269

The Athletic Training/Sports Medicine program at MJC is designed to prepare students for appropriate procedures in prevention, care, and rehabilitation of athletic injuries. This degree is also designed to transfer students to four-year institutions where they can continue their education to fulfill the requirements of the National Athletic Trainer’s...
A: ATHLETIC TRAINING/SPORTS MEDICINE / AUTobody

A.S. DEGREE:
ATHLETIC TRAINING/SPORTS MEDICINE

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Comply with current Auto Body industry safety and environmental standards.
2. Perform Auto Body repairs in accordance with industry standards.

PROGRAM REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 19 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUBDY 301</td>
<td>Automotive Collision Repair 1</td>
<td>2</td>
</tr>
<tr>
<td>AUBDY 302</td>
<td>Automotive Collision Repair 2</td>
<td>2</td>
</tr>
<tr>
<td>AUBDY 303</td>
<td>Automotive Collision Repair 3</td>
<td>2</td>
</tr>
<tr>
<td>AUBDY 321</td>
<td>Automotive Spray Refinishing 1</td>
<td>3</td>
</tr>
<tr>
<td>AUBDY 322</td>
<td>Automotive Spray Refinishing 2</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 19

Autobody/Refinishing PROGRAM
(209) 575-6332

The Auto Body program is designed to help the beginning student progress through basic procedures in body repairs and painting to entry-level job skill development. Current practices used in industry are emphasized. The course orientation examines use of trade equipment, shop safety, theory, and hands-on activities required to perform practical repair operations.

A.S. DEGREE: AUTobody/REFINIShING

The Auto Body program is designed to help the beginning student progress through basic procedures in body repairs and painting to entry-level job skill development. Current practices used in industry are emphasized. The course orientation examines use of trade equipment, shop safety, theory, and hands-on activities required to perform practical repair operations.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Comply with current Auto Body industry safety and environmental standards.
2. Perform Auto Body repairs in accordance with industry standards.

PROGRAM REQUIREMENTS
To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

The Auto Body program is designed to help the beginning student progress through basic procedures in body repairs and painting to entry-level job skill development. Current practices used in industry are emphasized. The course orientation examines use of trade equipment, shop safety, theory, and hands-on activities required to perform practical repair operations.
The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current automotive industry safety and environmental standards.

2. Perform maintenance and repair operations in accordance with ASE standards.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree: Automotive Technician, the student must complete 32.5 total units of required and elective courses and complete the Career and Technical Education Pathway requirements.

REQUIRED COURSES - COMPLETE 14.5 UNITS

AUTC 311 [1] Basic Automotive Systems .................................. 4
AUTC 368 [1,2] A6: Automotive Electricity/Electronic Systems 1 .......... 3.5
AUTC 369 [2,3] A6: Automotive Electricity 2 .................................. 4

ELECTIVE COURSES - COMPLETE 18 UNITS

AUTC 211 [2,3] Intro to Alternative Fuels and Advanced Technology Vehicles .......... 3
AUTC 320 [3,4] L1: Advance Engine Performance ......................... 4
AUTC 322 [2] A4: Steering, Suspension and Alignment ................ 3.5

TOTAL UNITS IN A.S. MAJOR ......................................... 32.5

CERTIFICATE OF ACHIEVEMENT: AUTOMOTIVE BRAKES AND SUSPENSION

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current automotive industry safety and environmental standards.
2. Perform maintenance and repair operations to vehicle braking and suspension systems in accordance with ASE standards.

PROGRAM REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 17.5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTC 311</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 200</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 368</td>
<td>[1, 2]</td>
</tr>
<tr>
<td>AUTC 322</td>
<td>[2]</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............... 17.5

CERTIFICATE OF ACHIEVEMENT: AUTOMOTIVE DIAGNOSIS

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

PROGRAM REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 27 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTC 311</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 200</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 368</td>
<td>[1, 2]</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............... 27

CERTIFICATE OF ACHIEVEMENT: AUTOMOTIVE ENGINES AND TRANSMISSIONS

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

PROGRAM REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - 21 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTC 311</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 200</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 368</td>
<td>[1, 2]</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............... 21

CERTIFICATE OF ACHIEVEMENT: AUTOMOTIVE SERVICE

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

PROGRAM REQUIREMENTS
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 36 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTC 311</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 200</td>
<td>[1]</td>
</tr>
<tr>
<td>AUTC 368</td>
<td>[1, 2]</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............... 36
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - COMPLETE 10.5 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTEC 200</td>
<td>Automotive Service Management</td>
<td>3</td>
</tr>
<tr>
<td>AUTEC 311</td>
<td>Basic Automotive Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTEC 368</td>
<td>A6: Automotive Electricity/Electronic Systems 1</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE 21 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTEC 315</td>
<td>A1: Engine Repair</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 317</td>
<td>Auto Heating &amp; Air Conditioning</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 321</td>
<td>A5: Brakes Systems</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 322</td>
<td>A4: Steering, Suspension &amp; Alignment</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 323</td>
<td>A2: Automatic Transmission &amp; Transaxles</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 324</td>
<td>A3: Manual Transmission and Drive Axles</td>
<td>3.5</td>
</tr>
<tr>
<td>AUTEC 369</td>
<td>A6: Automotive Electricity 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD** .................31.5

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**Biological Sciences**

**PROGRAM**

(209) 575-6173

**A.S. DEGREE: BIOLOGICAL SCIENCES**

**ABOUT THIS EMPHASIS**

This A.S. is designed as a University Preparation, Emphasis in Biological Sciences. The University Preparation degree, distinctive of the University Preparation “pathway,” is designed to prepare you for transfer to a California State University (CSU) or University of California (UC) campus. While completion of this program does not guarantee admission to a specific college or university, it allows you to complete preparatory courses that may apply toward the area of study in which you plan to major at your targeted transfer university, and to complete general education requirements required by CSU and UC for bachelor’s (baccalaureate) degree. It entails an interdisciplinary approach to learning that will allow you to simultaneously meet your unique transfer goals and fulfill lower division requirements for bachelor’s degree at many CSU or UC institutions. You will do this by completing a rigorous general education experience with either the CSU-GE or IGETC general education patterns, in addition to completing an emphasis in a particular field or program. How does it work? Each emphasis has been crafted to help you prepare for upper-division coursework in a baccalaureate major at a four-year university. By fulfilling the requirements of the MJC emphasis, you will also be completing some or all lower-division preparation for baccalaureate major at the university. ASSIST (www.assist.org) is a statewide database of recorded transfer agreements between community colleges and universities. You are advised to use ASSIST in selecting courses from the emphasis to ensure that the coursework applies to your baccalaureate major. University Preparation with Emphasis Prepare for transfer with some majors at MJC Not every program at MJC offers a degree designed for transfer-oriented students. However, many programs do offer AA or AS majors which function like the emphasis for transfer-oriented students. Those majors are included on the following pages to help you make the right decision when determining the best transfer-oriented path of study.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Apply the scientific method of discovery to problem solving situations in biology, mathematics, and chemistry.
2. Proficiently use the scientific vocabulary, including the key terms and concepts in biology, chemistry, and mathematics.

**PROGRAM REQUIREMENTS**

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway (p. 103) which include completion of the requirements below. See counselor or advisor for selection of courses.

**REQUIRED COURSES – TAKE 12 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 101</td>
<td>General Botany</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 101</td>
<td>General Zoology</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES – TAKE 9-10 UNITS**

Please refer to www.assist.org for your chosen transfer university and specific major, and use that information to select 2 courses within one discipline from the following list of electives. Additional courses may be required by your transfer university.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>General Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>MATH 171</td>
<td>Calculus: First Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 172</td>
<td>Calculus: Second Course</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>Mechanics, Heat, &amp; Waves</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 143</td>
<td>Electricity, Magnetism, Optics, Atomic and Nuclear Structure</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS REQUIRED IN A.S. MAJOR** .........................21-22

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**Bookkeeping**

**PROGRAM**

(209) 575-6129

In the Bookkeeping program, students learn to analyze and enter transactions in journals, post to ledgers, complete worksheets, prepare the company’s payroll, calculate employer payroll taxes, prepare the federal and state payroll tax forms, use various bookkeeping registers, prepare adjusting and closing entries, prepare classified earnings and capital statements, and prepare balance sheets. Students also learn about depreciation, bad debts, cost of goods sold, notes receivable, notes payable, inventory valuation and business taxes. The use of computers is also an important part of the bookkeeping program.
PROGRAMS

A.S. DEGREE: BOOKKEEPING

In the Bookkeeping program, students learn to analyze and enter transactions in journals, post to ledgers, complete worksheets, prepare the company’s payroll, calculate employer payroll taxes, prepare the federal and state payroll tax forms, use various bookkeeping registers, prepare adjusting and closing entries, prepare classified earnings and capital statements, and prepare balance sheets. Students also learn about depreciation, bad debts, cost of goods sold, notes receivable, notes payable, inventory valuation and business taxes. The use of computers is also an important part of the bookkeeping program.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment as an entry-level bookkeeper.
3. Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 22 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 310</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 320</td>
<td>Bookkeeping 2</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 200</td>
<td>Spreadsheet Skills for Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 203</td>
<td>Computer Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 300</td>
<td>Machine Calculations</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 50</td>
<td>Business Computations</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 319</td>
<td>Payroll Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 336</td>
<td>Tax Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 203</td>
<td>Intermediate Keyboarding 3</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 305</td>
<td>Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 230</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>Principles of Management</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>Human Relations in Business</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR .............................................................. 28

CERTIFICATE OF ACHIEVEMENT: BOOKKEEPING

The Bookkeeping Certificate is designed for students planning to enter the job market at the entry level as a bookkeeper after completing the required program courses. Student should have keyboarding skills. If not, he/she should take a beginning keyboarding course. Degrees and Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. Interested students should consult Business Administration faculty advisors.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment as an entry-level bookkeeper.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 22 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 310</td>
<td>Bookkeeping 1</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 320</td>
<td>Bookkeeping 2</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 200</td>
<td>Spreadsheet Skills for Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 203</td>
<td>Computer Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 300</td>
<td>Machine Calculations</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 50</td>
<td>Business Computations</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 319</td>
<td>Payroll Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 336</td>
<td>Tax Accounting</td>
<td>3</td>
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</table>

ELECTIVE COURSES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 203</td>
<td>Intermediate Keyboarding 3</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 305</td>
<td>Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 230</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .............................. 25

Business Administration
PROGRAM (209) 575-6129

This curriculum plan is intended for those interested in transferring to a four-year college or university. Students seeking transfer to a California State University (CSU) campus should refer to the A.S. degree in Business Administration. Students seeking transfer to other colleges or universities should use the A.S. degree in Business Administration and choose courses which meet the entrance requirements of their intended college of transfer.

Students are encouraged to consult with the business administration faculty and a counselor in order to modify the curriculum to reflect their career interests and the career goals of the major. Students who plan to pursue a Business Administration major at a four-year institution should check the catalog of the senior school for specific requirements. Visit www.assist.org for specific transfer information.

The Business Administration program is designed to prepare students who plan to transfer to a four-year college or university to earn a Bachelor in Arts or Science Degree. Students take classes to complete general education requirements and combine business classes in accounting, economics, marketing, and business law to complete the Business Administration program. Upon transferring to a four-year college or university, students may choose a concentration in areas such as accounting, business teacher education, executive secretarial administration, finance, insurance, international business (pg. 207), management information, marketing (pg. 212), production operations and systems management, and real estate (pg. 235), and land use affairs.
A.S.-T DEGREE: BUSINESS ADMINISTRATION

ABOUT THIS PROGRAM

This curriculum plan is intended for those interested in transferring to a four-year college or university. Students seeking transfer to a California State University (CSU) campus should refer to the A.S.T. degree in Business Administration. Students seeking transfer to other colleges or universities should use the A.S. degree in Business Administration and choose courses which meet the entrance requirements of their intended college of transfer. Students are encouraged to consult with the business administration faculty and a counselor in order to modify the curriculum to reflect their career interests and the career goals of the major. Students who plan to pursue a Business Administration major at a four-year institution should check the catalog of the senior school for specific requirements. Visit www.assist.org for specific transfer information. The Business Administration program is designed to prepare students who plan to transfer to a four-year college or university to earn a Bachelor in Arts or Science Degree. Students take classes to complete general education requirements and combine business classes in accounting, economics, marketing, and business law to complete the Business Administration program. Upon transferring to a four-year college or university, students may choose a concentration in areas such as accounting, business teacher education, executive secretarial administration, finance, insurance, international business, management information, marketing, production operations and systems management, and real estate and land use affairs.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Transfer to a CSU college.
2. Be academically prepared for upper division coursework.
3. Demonstrate the ability to recognize and analyze ethical issues as they apply to the business environment.
4. Demonstrate an understanding of business terminology.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN SCIENCE IN BUSINESS OF ADMINISTRATION FOR TRANSFER DEGREE:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements

(R) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtaining of a minimum grade point average of 2.0

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not acceptable as grade for courses in the major.

REQUIRED CORE: (18 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 202</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST A: COMPLETE 1 COURSE (3-4 UNITS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 134</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 138</td>
<td>Calculus for Business &amp; Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: SELECT TWO COURSES

Any list A course not used above .................................................. 3-4
CSCI 201 [1] General Computer Literacy ........................................ 3
BUSAD 248 [1] Introduction to Business ....................................... 3 OR
BUSAD 210 [3,4] Business Communication .................................... 3

TOTAL UNITS REQUIRED IN A.S.-T MAJOR ........................................ 27-28

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED .................................. 9
GENERAL EDUCATION (CSU-GE OR IGETC) UNITS .................................. 37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED) ........................................ 1-3

TOTAL UNITS REQUIRED FOR A.S.-T DEGREE .................................... 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for the Associate in Science in Business Administration for Transfer degree. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis.

A.S. DEGREE: BUSINESS ADMINISTRATION

This curriculum plan is intended for those interested in transferring to a four-year college or university. Students seeking transfer to a California State University (CSU) campus should refer to the A.S.T. degree in Business Administration. Students seeking transfer to other colleges or universities should use the A.S. degree in Business Administration and choose courses which meet the entrance requirements of their intended college of transfer. Students are encouraged to consult with the business administration faculty and a counselor in order to modify the curriculum to reflect their career interests and the career goals of the major. Students who plan to pursue a Business Administration major at a four-year institution should check the catalog of the senior school for specific requirements.Visit www.assist.org for specific transfer information.

The Business Administration program is designed to prepare students who plan to transfer to a four-year college or university to earn a Bachelor in Arts or Science Degree. Students take classes to complete general education requirements and combine business classes in accounting, economics, marketing, and business law to complete the Business Administration program. Upon transferring to a four-year college or university, students may choose a concentration in areas such as accounting, business teacher education, executive secretarial administration, finance, insurance, international business, management information, marketing, production operations and systems management, and real estate and land use affairs.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Transfer to a 4 year college or university (non CSU).
2. Be academically prepared for upper division coursework.
3. Demonstrate the ability to recognize and analyze ethical issues as they apply to the business environment.
4. Demonstrate an understanding of business terminology.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the University Preparation Pathway which include completion of the requirements below. This degree is intended for individuals who desire to transfer to a University of California (UC) campus or other four-year college (non California State University campus). Students seeking to transfer to a CSU campus should pursue the Associate in Science Transfer Degree (A.S.-T). Students are advised to consult with a counselor and visit www.ASSIST.org in order to meet specific college or university transfer requirements.

REQUIRED COURSES - COMPLETE 18 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 202</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>
ECON 101 [1]  Principles of Macroeconomics ...........................................3
ECON 102 [2]  Principles of Microeconomics ................................................3
BUSAD 218 [3]  Business Law .............................................................................4

**ELECTIVE COURSES – COMPLETE 9 UNITS**

BUSAD 230 [2]  Personal Finance .............................................................................3
BUSAD 240 [1]  Principles of Management ...............................................................3
BUSAD 248 [1]  Introduction to Business ................................................................3
BUSAD 249 A-D [4]  Business Internship ..............................................................1-4
BUSAD 208 [3]  Introduction to International Business ..........................................3
CSCI 201 [1]  General Computer Literacy ...............................................................3

**TOTAL UNITS IN A.S. MAJOR .................................................................27**

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**Business Operations**

**PROGRAM**

(209) 575-6129

The Business Operations major is designed for those students seeking an A.S. degree in management and/or marketing activities of organizations. The major offers two separate tracks for those students wishing to specialize in either area.

The Management track in Business Operations will prepare students for careers in both profit and nonprofit organizations. The basic functions of management are applied in organizations of all sizes and types. These functions include planning, organization, directing, and controlling. Students will learn the theory and techniques of problem solving, communication, motivation, and quality performance.

**A.S. DEGREE:**

**BUSINESS OPERATIONS: MANAGEMENT**

The A.S in Business Operations Management will prepare students for careers in both for-profit and nonprofit organizations. The basic functions of management are applied in organizations of all sizes and types. These functions include planning, organization, directing, and controlling. Students will learn the theory and techniques of problem solving, communication, motivation, quality performance, as well as ethical issues faced by managers.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment in an entry-level management position within the for-profit or non-profit sector.
3. Critically analyze common management issues.
4. Demonstrate appropriate and effective business communication skills.

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**Chemistry**

**PROGRAM**

(209) 575-6173

**A.S.-T DEGREE: CHEMISTRY**

The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) is designed to prepare students who wish to transfer to a CSU and major in Chemistry. The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Chemistry. Courses in organic and inorganic chemistry will enable the student to demonstrate ability to engage in critical thinking and problem-solving in the application of Chemistry principles. The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) includes curriculum which focuses on practical application of problem solving skills and theory. Students who complete The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) will be able to demonstrate competence in the application of Chemistry. The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) is intended for students who plan to complete a bachelor's degree in Chemistry at a CSU campus. Students completing the Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Potential careers in the Chemistry field include those of Chemistry educator, Chemical technician and Chemical researcher in both academia and industry.

The Associate in Science in Chemistry for Transfer Degree (A.S.-T in Chemistry) may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.
A.S. DEGREE: CHEMISTRY

ABOUT THIS EMPHASIS

This A.S. degree is designed as a University Preparation, Emphasis in Chemistry. The University Preparation degree, distinctive of the University Preparation "pathway," is designed to prepare you for transfer to a California State University (CSU) or University of California (UC) campus. Chemistry is the branch of physical science that deals with the elementary substances, or forms of matter, of which all bodies are composed, the laws that regulate the combination of these elements in the formation of compound bodies, and the various phenomena that accompany their exposure to diverse physical conditions. This area of emphasis is recommended for students who wish to continue at a four-year college or university as a chemistry major, premedical or similar major.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Score the national median or higher on American Chemical Society General Chemistry Exam (full year).
2. Score the national median or higher on American Chemical Society Organic Chemistry Exam (full year).
3. Use of quantitative and/or qualitative analysis techniques to determine an unknown in a general chemistry laboratory setting.
4. Use of NMR, IR and other spectrum to determine an unknown organic compound.
5. Successfully transfer to a 4-year college or university and/or begin work in an entry level chemistry technician position.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the University Preparation Pathway which include completion of the requirements below.

REQUIRED COURSES – COMPLETE 10 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 101 [1]</td>
<td>General Chemistry 1</td>
<td>5 AND</td>
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REQUIRED & ELECTIVE COURSES – COMPLETE 10 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

ELECTIVE COURSES – COMPLETE 8 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101 [NP]</td>
<td>Biological Principles</td>
<td>4</td>
</tr>
<tr>
<td>BIO 111 [NP]</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 171 [NP]</td>
<td>Calculus: First Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 172 [NP]</td>
<td>Calculus: Second Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 173 [NP]</td>
<td>Calculus: Third Course</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 101 [NP]</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 102 [NP]</td>
<td>General Physics: Waves, Thermodynamics, &amp; Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 103 [NP]</td>
<td>General Physics: Electricity, Magnetism, &amp; Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED FOR A.S.-T. DEGREE

60

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.
C: CHEMICAL DEPENDENCY

Chemical Dependency Counseling PROGRAM
(209) 575-6129

A.A. DEGREE: CHEMICAL DEPENDENCY COUNSELING

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate an understanding of chemical dependency, family systems, and the application of the code of ethics as it relates to chemical dependency counseling.
2. Exhibit effective, communication, body language, and written abilities.
3. Demonstrate an understanding of addiction, biology, psychoactive substances, co-occurring disorders, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.
4. Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.
5. Conduct a basic assessment, interview, intervention, referral, individual counseling, and group session with individuals that are chemically dependent.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 36 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HUMSR 101</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 111</td>
<td>Counseling in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 116</td>
<td>Drugs and Alcohol in Society</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 117</td>
<td>Interv/Treatment Strategies in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 118</td>
<td>Drugs and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 120</td>
<td>Professional Development in the Helping Professions</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 144</td>
<td>Human Services Practicum</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 145AB*</td>
<td>Community Agency Practicum</td>
<td>1-4</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.A. MAJOR ............................................... 36

*Student must take HUMSR 145A, B, or D to achieve at least 6 units.

CERTIFICATE OF ACHIEVEMENT: CHEMICAL DEPENDENCY COUNSELING

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform clinical evaluations which is the systematic approach to screening and assessment of individuals thought to have a substance use disorder; being considered for admission to addiction-related services, or presenting in a crisis situation.
2. Develop treatment plans which is a collaborative process in which professionals and the client develop a written document that identifies important treatment goals; describes measurable, time-sensitive action steps toward achieving those goals with expected outcomes; and reflects a signed agreement between a counselor and client.
3. Verbalize referrals which is the process of facilitating the client’s use of available support systems, and community resources to meet needs identified in clinical evaluations and treatment plans.
4. Demonstrate service coordination which is the administrative, clinical, and evaluative activities that bring the client, treatment services, community agencies, and other resources together to focus on issues and needs identified in the treatment plan.
5. Conduct individual and group counseling sessions which is the collaborative process that facilitates client’s progress towards mutually determined treatment goals and objectives.
6. Provide client, family, and community education which is the process of providing clients, families, significant others, and community groups with information on risks related to psychoactive substance use, as well as available prevention, treatment, and recovery resources.
7. Demonstrate appropriate documentation skills which involves the process of screening and intake, assessment, treatment planning, clinical reports, progress notes, discharge summaries, and other client-related data.
8. Uphold professional standards and ethical responsibilities which are the obligations of an addiction counselor to adhere accepted ethical and behavioral standards, conduct, and professional development.

To earn a Certificate of Achievement in Chemical Dependency Counseling, the student must satisfactorily complete the requirements detailed in the California Association for Alcohol and Drug Educators curriculum, which include completion of 36 units.

REQUIRED COURSES - COMPLETE 36 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMSR 101</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 110</td>
<td>Intro to Interviewing, Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 111</td>
<td>Counseling in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 113</td>
<td>Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 116</td>
<td>Drugs and Alcohol in Society</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 117</td>
<td>Interv/Treatment Strategies in Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 118</td>
<td>Pharmacology of Abused Substances</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 119</td>
<td>Interv Grp Ldrshp/Grp Process</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 120</td>
<td>Professional Development in the Helping Professions</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 142</td>
<td>Introduction to Psychosocial Rehabilitation</td>
<td>3 OR</td>
</tr>
<tr>
<td>HUMSR 143</td>
<td>Psychosocial Rehabilitation Practice</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 144</td>
<td>Human Services Practicum</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 145AB*</td>
<td>Community Agency Practicum</td>
<td>1-4</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................. 36

*Two completions
THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER (AS-T IN EARLY CHILDHOOD EDUCATION) DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   A. The Interssegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better or “P” (Pass).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.

2. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.

3. Apply effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.

4. Develop strategies that promote partnerships between programs, teachers, families and their communities.

5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education.

PROGRAM REQUIREMENTS

To earn an Associate in Science for Transfer Degree in this major, the student must complete the requirements detailed in the TMC Pathway which include completion of the requirements below.

REQUIRED CORE - COMPLETE 24 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEDV 101</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 103</td>
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</tr>
<tr>
<td>CLEDV 107</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 109</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 111</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 167</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 262</td>
<td>3</td>
</tr>
<tr>
<td>CLEDV 128</td>
<td>3 OR</td>
</tr>
<tr>
<td>CLEDV 127</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS REQUIRED IN A.S.-T MAJOR ........................................... 24

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED .................................... 3-6

GENERAL EDUCATION (CSU-GE OR IGETC) UNITS ................................. 37-39

ELECTIVE (CSU TRANSFERABLE) UNITS ............................................. 2-3

TOTAL UNITS REQUIRED FOR A S. T. DEGREE .................................... 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

A.S. DEGREE: CHILD DEVELOPMENT

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.

Programs
2. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education profession.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

**REQUIRED COURSES - COMPLETE 12 UNITS**

- C m 101 [1] Principles and Practices of Teaching Young Children ................. 3
- C m 103 [1] Child Growth and Development ........................................... 3
- C m 107 [1] Introduction to Curriculum .................................................. 3
- C m 109 [1] Child-Family-Community ..................................................... 3
- C m 111 [2] Health, Safety, and Nutrition .................................................. 3
- C m 121 [2] Guidance of Young Children .................................................. 3
- C m 125 [2] Infant and Toddler Development and Care .......................... 3
- C m 127 [3] Infant/Toddler Practicum ....................................................... 3 OR
- C m 128 [3] Preschool Practicum .............................................................. 3
- C m 167 [4] Observation and Assessment .................................................. 3
- C m 262 [4] Diversity in Educational Settings .......................................... 3

TOTAL UNITS IN A.S. MAJOR .................................................................. 33

**CERTIFICATE OF ACHIEVEMENT: EARLY INTERVENTIONIST**

The Certificates of Achievement in Child Development acts as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California’s Early Start Program, A.A./A.S. degrees, and transfer to a university.

Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing. All certificates align with the permits issued by the State of California, Commission on Teacher Credentialing. To earn a Certificate of Achievement, the student must complete the coursework as indicated. Each course must be completed with a grade of C or better.

To earn the Early Interventionist Certificate of Achievement students must complete 24 units of required coursework listed below. All courses must be completed with a grade of “C” or better.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Integrate understanding of the special needs, characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for young children in inclusive environments.
3. Adapt and apply respectful, effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.

**REQUIRED COURSES - COMPLETE 24 UNITS**

- C m 103 [NP] Child Growth and Development ........................................ 3
- C m 109 [NP] Child-Family-Community ................................................ 3
- C m 121 [NP] Guidance of Young Children ............................................. 3
- C m 125 [NP] Infant and Toddler Development and Care ...................... 3
- C m 127 [3] Infant/Toddler Practicum .................................................... 3 OR
- C m 128 [3] Preschool Practicum ............................................................ 3
- C m 160 [NP] Introduction to Children with Special Needs ................... 3
- C m 163 [NP] Curriculum and Strategies for Children with Special Needs 3
- C m 167 [3] Observation and Assessment ................................................ 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............... 24

**CERTIFICATE OF ACHIEVEMENT: ASSOCIATE TEACHER**

The Certificates of Achievement in Child Development acts as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California’s Early Start Program, A.A./A.S. degrees, and transfer to a university.

Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing. All certificates align with the permits issued by the State of California, Commission on Teacher Credentialing.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.
2. Apply effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.

**PROGRAM REQUIREMENTS**

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a C or better.
CERTIFICATE OF ACHIEVEMENT:
MASTER TEACHER

The Certificates of Achievement in Child Development acts as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California’s Early Start Program, A.A./A.S. degrees, and transfer to a university.

Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing. All certificates align with the permits issued by the State of California, Commission on Teacher Credentialing. To earn a Certificate of Achievement, the student must complete the coursework as indicated. Each course must be completed with a grade of C or better.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and describe the courses totaling 32 units necessary to complete this certificate and compare/contrast how the certificate is aligned with the Master Teacher.
2. Permit issued through State of California, Commission on Teacher Credentialing.
3. Apply specialized knowledge of courses from the six-unit option in the early care and education classroom (i.e. infant/toddler; early intervention; families and culture.)
4. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence as the lead teacher in the classroom.
5. Demonstrate an awareness and understanding of the diverse cultural aspects of child rearing and family practices and potential cultural conflicts as individuals interact.

REQUIRED COURSES - COMPLETE A MINIMUM OF 17 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CLDDV 101</td>
<td>[1]</td>
</tr>
<tr>
<td>CLDDV 103</td>
<td>[1]</td>
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<tr>
<td>CLDDV 107</td>
<td>[1]</td>
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<tr>
<td>CLDDV 109</td>
<td>[1]</td>
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<tr>
<td>CLDDV 127</td>
<td>[3]</td>
</tr>
<tr>
<td>CLDDV 128</td>
<td>[3]</td>
</tr>
<tr>
<td>CLDDV 154</td>
<td>[3]</td>
</tr>
</tbody>
</table>

SELECT ONE 6-UNIT SPECIALIZATION OPTION FROM THE FOLLOWING:

CHOOSE ONE OF THE FOLLOWING OPTIONS:

EARLY INTERVENTION OPTION - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLDDV 163</td>
<td>[NP]</td>
</tr>
<tr>
<td>CLDDV 167</td>
<td>[NP]</td>
</tr>
<tr>
<td>CLDDV 160</td>
<td>[NP]</td>
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</table>

INFANT/TODDLER OPTION - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>CLDDV 125</td>
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<tr>
<td>CLDDV 127</td>
<td>[NP]</td>
</tr>
<tr>
<td>CLDDV 122</td>
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</table>

ELECTIVES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLDDV 111</td>
<td>[2]</td>
</tr>
<tr>
<td>CLDDV 121</td>
<td>[2]</td>
</tr>
<tr>
<td>CLDDV 125</td>
<td>[2]</td>
</tr>
<tr>
<td>CLDDV 163</td>
<td>[4]</td>
</tr>
<tr>
<td>CLDDV 167</td>
<td>[4]</td>
</tr>
<tr>
<td>CLDDV 262</td>
<td>[4]</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT Award ................. 32

*NOTE: Students completing the required Child Development coursework for an A.S. degree, and who have completed CLDDV 154, will be qualified at the Master Teacher Certificate level with a specialization in Early Intervention. In addition students completing the required Child Development coursework for an A.S. degree, and who have completed

CLDDV 154, including the Infant/Toddler or Inclusion lab practicum will be qualified at the Master Teacher Certificate level with a specialization in Infant/Toddler Development. Students should consult with a child development department advisor for specific information about specializations and the Master Teacher Permit.

CERTIFICATE OF ACHIEVEMENT:
SITE SUPERVISOR

The Certificates of Achievement in Child Development act as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California’s Early Start Program, A.A./A.S. degrees, and transfer to a university.

Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing. All certificates align with the permits issued by the State of California, Commission on Teacher Credentialing. To earn a Certificate of Achievement, the student must complete the coursework as indicated. Each course must be completed with a grade of C or better.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the field of early care and education.
2. Integrate understanding of the needs, characteristics and multiple influences on development of children birth to age eight as related to delivering high quality care and education for young children.
3. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.
4. Apply effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
5. Develop strategies that promote partnerships between programs, teachers, families and their communities in early care and education settings.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 23 UNITS

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CLDDV 101</td>
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<tr>
<td>CLDDV 103</td>
<td>[1]</td>
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<tr>
<td>CLDDV 107</td>
<td>[1]</td>
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<td>CLDDV 109</td>
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<tr>
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<td>CLDDV 128</td>
<td>[3]</td>
</tr>
<tr>
<td>CLDDV 154</td>
<td>[3]</td>
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</table>

ELECTIVE COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
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<td>CLDDV 111</td>
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<tr>
<td>CLDDV 121</td>
<td>[NP]</td>
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<td>CLDDV 163</td>
<td>[NP]</td>
</tr>
<tr>
<td>CLDDV 167</td>
<td>[NP]</td>
</tr>
<tr>
<td>CLDDV 262</td>
<td>[NP]</td>
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</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT Award ................. 32
CERTIFICATE OF ACHIEVEMENT: TEACHER

The Certificates of Achievement in Child Development act as a pathway to various career opportunities in education, State of California permits, Early Intervention Assistant Personnel Competencies for California's Early Start Program, A.A./A.S. degrees, and transfer to a university.

Teachers and administrators of funded child development programs in the State of California must hold permits issued by the California Commission on Teacher Credentialing. All certificates align with the permits issued by the State of California, Commission on Teacher Credentialing. To earn a Certificate of Achievement, the student must complete the coursework as indicated. Each course must be completed with a grade of C or better.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children’s social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 18 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CLDDV 101</td>
<td>3</td>
</tr>
<tr>
<td>CLDDV 103</td>
<td>1</td>
</tr>
<tr>
<td>CLDDV 107</td>
<td>2</td>
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<td>CLDDV 109</td>
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<td>CLDDV 127</td>
<td>3</td>
</tr>
<tr>
<td>CLDDV 128</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
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<tr>
<td>CLDDV 125</td>
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<tr>
<td>CLDDV 163</td>
<td>4</td>
</tr>
<tr>
<td>CLDDV 167</td>
<td>4</td>
</tr>
<tr>
<td>CLDDV 262</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.......................... 24

Communication Studies Program
(209) 575-6081

The Communication Studies Program at Modesto Junior College offers students a variety of courses which incorporate both theory and performance instruction. These include public speaking, argumentation and debate, organizational communication, intercultural and interpersonal communication, context speaking and forensic competition which includes debate and individual events. The MJC Forensics Team has captured a number of state and national championships. Most courses are available to students in both day and evening hours.

A.A.-T DEGREE: COMMUNICATION STUDIES

The Associate in Arts in Communication Studies for Transfer degree includes curriculum which focuses on practical application of communication skills and communication theory. Students who complete the degree will be able to demonstrate communication competence in both personal and business relationships. The Associate in Arts in Communication Studies for Transfer is intended for students who plan to complete a bachelor's degree in Communication Studies at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements. In order to earn this A.A.-T degree, students must complete a minimum of 60 required semester units of CSU transferable coursework with a minimum GPA of 2.0.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.
2. Identify and apply principles of interpersonal communication theory to build functional relationships.
3. Demonstrate critical thinking in the analysis and production of communication.
4. Adequately debate others, present platform speeches, or perform works of literature in a classroom or outside venue.

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0."

ADS also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.
To earn an Associate in Arts for Transfer Degree in this major, the student must complete the requirements detailed in the Transfer Model Curriculum pathway. All courses must be completed with a C or better.

REQUIRED CORE - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100</td>
<td>Fundamentals of Public Speaking</td>
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</tbody>
</table>

LIST A (SELECT TWO) - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 104</td>
<td>Argumentation</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 107</td>
<td>Introduction to Debate</td>
<td>3</td>
</tr>
<tr>
<td>COMM 103</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 106</td>
<td>Group &amp; Organizational Communication</td>
<td>3</td>
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</tbody>
</table>

LIST B (SELECT TWO) - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 105</td>
<td>Intercollegiate Forensics</td>
<td>3</td>
</tr>
<tr>
<td>COMM 130</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 132</td>
<td>Introduction to Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 120</td>
<td>Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Up to 3 units in Forensics may be counted for list B

LIST C (SELECT ONE) - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 122</td>
<td>Introduction to Readers’ Theatre</td>
<td>3</td>
</tr>
<tr>
<td>COMM 123</td>
<td>Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>COMM 124</td>
<td>Advanced Readers’ Theatre</td>
<td>3</td>
</tr>
<tr>
<td>COMM 133</td>
<td>Mediated Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR THE A.A.T. MAJOR .................................................. 18

GENERAL EDUCATION (CSU-GE OR IGETC) UNITS .................................... 37-39
Elective (CSU transferable) units ..................................................... 11-21

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE ........................................ 60

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.

A.A. DEGREE: COMMUNICATION STUDIES

The Communication Studies Program at Modesto Junior College offers students a variety of courses which incorporate both theory and performance instruction. These include public speaking, argumentation and debate, organizational communication, intercultural and interpersonal communication, contest speaking and forensics competition which includes debate and individual events. The MJC Forensics Team has captured a number of state and national championships. Most courses are available to students in both day and evening hours.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.
2. Identify and apply principles of interpersonal communication theory to build functional relationships.
3. Demonstrate critical thinking in the analysis and production of communication.
4. Adequately debate others, present platform speeches, or perform works of literature in a classroom or outside venue.

To earn an Associate in Arts degree, the student must complete the requirements detailed in the University Preparation Pathway which include completion of the requirements below. Student should consult with a Speech Communication advisor for selection of Elective Units.

REQUIRED COURSES - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COMM 100</td>
<td>Fundamentals of Public Speaking</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 104</td>
<td>Argumentation</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 107</td>
<td>Introduction to Debate</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE 15 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 103</td>
<td>Intercollegiate Forensics</td>
<td>3</td>
</tr>
<tr>
<td>COMM 105</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 106</td>
<td>Mediated Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 108</td>
<td>Mediated Linguistic Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.A. MAJOR ....................................................... 21

CERTIFICATE OF ACHIEVEMENT: COMMUNICATION STUDIES

The Certificate of Achievement in Communication Studies is designed to enhance a student’s ability to communicate in academic and professional settings. This certificate is intended to improve the communication skills of students from all majors and career plans. Students majoring in fields that require strong communication skills may use certification in Communication Studies as an alternative to completing a Communication Studies degree.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.
2. Identify and apply principles of interpersonal communication theory to build functional relationships.
3. Demonstrate critical thinking in the analysis and production of communication.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better or “P” (Pass).

ORAL COMMUNICATION AREA - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100</td>
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<td>3</td>
</tr>
<tr>
<td>COMM 102</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 110</td>
<td>Persuasion</td>
<td>3</td>
</tr>
</tbody>
</table>

CRITICAL THINKING AREA - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 104</td>
<td>Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>COMM 107</td>
<td>Introduction to Debate</td>
<td>3</td>
</tr>
</tbody>
</table>

182
PROFESSIONAL SKILLS AREA - COMPLETE 3 UNITS

COMM 103  [2] Interpersonal Communication ..........................................................3
COMM 130  [2] Intercultural Communication ..........................................................3

GROUP AND ORGANIZATIONAL COMMUNICATION AREA - COMPLETE 3 UNITS


TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 12

CERTIFICATE OF ACHIEVEMENT: COMPUTER APPLICATIONS SPECIALIST

This award is designed for students who will work in a small business performing general computer application procedures such as: document preparation, simple calculations using electronic spreadsheets, or simple database management.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate proficiency in applying common business productivity software to business functions, including word processing, spreadsheets, database, and presentation applications.
2. Identify software to be used to address specific business needs.
3. Work successfully with Industrial and Information Computer Technology applications.
4. Demonstrate professional and effective communication skills.

REQUIRED COURSES – COMPLETE 18 UNITS

CSCI 201  [1] General Computer Literacy ............................................................... 3
CMGPR 263  [1] Internet Literacy ...........................................................................3
CSCI 223  [2] Spreadsheet Software .....................................................................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 18

Computer Applications Specialist PROGRAM

(209) 575-6129

This award is designed for students who will work in a small business performing general computer application procedures such as: document preparation, simple calculations using electronic spreadsheets, or simple database management.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate proficiency in applying common business productivity software to business functions, including word processing, spreadsheets, database, and presentation applications.
2. Identify software to be used to address specific business needs.
3. Work successfully with Industrial and Information Computer Technology applications.
4. Demonstrate professional and effective communication skills.

REQUIRED COURSES – COMPLETE 18 UNITS

CSCI 201  [1] General Computer Literacy ............................................................... 3
CMGPR 263  [1] Internet Literacy ...........................................................................3
CSCI 223  [2] Spreadsheet Software .....................................................................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 18

Computer Electronics

PROGRAM

(209) 575-6129

The Computers and Networking Technology program provides training in electronics fundamentals as well as in-depth study of operating systems, computer hardware, wired and wireless networks, and servers. Students train for industry-standard certification examinations (A+, Network+, Security+, and Server+) and prepare for careers as computer and networking service technicians.

A.S. DEGREE: COMPUTER ELECTRONICS

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Work successfully with Industrial and Information Computer Technology applications within multiple industries.
2. Perform basic computer hardware and telecommunication installations and repairs in accordance with industry commonly accepted practices.
3. Comply with degree related institutional GELO’s.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

REQUIRED COURSES – COMPLETE 14 UNITS

ELTEC 300  [1] Survey of Applied Technologies ......................................................3
CMPET 206  [1, 2, 3] Personal Computer Assembly, Upgrading & Repairing ............3
CMPET 210  [3, 4] Intermediate PC Servicing w/ A+ Certification Training ..............3
CMPET 214  [3, 4] Microprocessor Programming & Interfacing ...........................4
CMPET 269  [3, 4] Networking Devices & Systems .................................................1

INDUSTRIAL APPLICATION AREA - COMPLETE 6 UNITS

ELTEC 212  [1, 2, 3] Digital Principles and Circuits ..................................................3
ELTEC 232  [3, 4] Introduction to Programmable Logic Controllers .......................3
ELTEC 234  [3, 4] Introduction to PACs: Programmable Automation Controllers ....3
MACH 218  [2, 3] Introduction to CNC Lathe Programming ...................................2
MACH 219  [2, 3] Introduction to CNC Mill Programming .......................................2
MACH 220  [3, 4] CNC Machine Tool Programming .............................................2

COMPUTER PROGRAMMING AREA - COMPLETE 6 UNITS

CSCI 270  [1, 2] Introduction to Programming .........................................................3
CSCI 221  [2, 3, 4] Programming With Visual Basic ...............................................3
CSCI 271  [2, 3, 4] Problem Solving and Programming ............................................3
CSCI 273  [2, 3, 4] Assembly Language Programming .............................................3

COMPUTER PROGRAMMING AREA - COMPLETE 6 UNITS

CSCI 240  [1, 2] Networking Essentials .................................................................4
ELTEC 208  [1, 2] Fundamentals of Electricity and Electronics ...............................3
CSCI 210  [3, 4] Intro to UNIX/Linux Syst & Programming .....................................3

TOTAL UNITS IN A.S. MAJOR ............................................................................ 32
CERTIFICATE OF ACHIEVEMENT: COMPUTER ELECTRONICS

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Work successfully with Industrial and Information Computer Technology applications in multiple industries.
2. Perform basic computer hardware, telecommunication and industrial installation and repairs in accordance with industry commonly accepted practices.

To earn a Certificate of Achievement, the student must complete the coursework below. All required courses must be completed with a C or better.

REQUIRED COURSES - COMPLETE 14 UNITS
ELTEC 300 [1] Survey of Applied Technologies ................................................................. 3
CMPET 206 [1, 2, 3] Personal Computer Assembly, Upgrading & Repairing .................. 3
CMPET 210 [3, 4] Intermediate PC Servicing w/ A+ Certification Training .................. 3
CMPET 214 [3, 4] Microprocessor Programming & Interfacing .................................. 4
CMPET 269 [3, 4] Networking Devices & Systems .......................................................... 1

INDUSTRIAL APPLICATION AREA - COMPLETE 6 UNITS
ELTEC 212 [1, 2, 3] Digital Principles and Circuits ............................................................ 3
ELTEC 232 [3, 4] Introduction to Programmable Logic Controllers .......................... 3
ELTEC 234 [3, 4] Introduction to PACs: Programmable Automation Controllers .... 3
NACH 218 [2, 3] Introduction to CNC Lathe Programming ........................................ 2
NACH 219 [2, 3] Introduction to CNC Mill Programming .............................................. 2
NACH 220 [3, 4] CNC Machine Tool Programming ......................................................... 2

COMPUTER PROGRAMMING AREA - COMPLETE 6 UNITS
CSCI 270 [1, 2] Introduction to Programming ................................................................. 3
CSCI 271 [2, 3, 4] Problem Solving and Programming 1 ............................................. 3
CSCI 273 [2, 3, 4] Assembly Language Programming .................................................. 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ............................ 32

A.S. DEGREE: COMPUTER GRAPHICS APPLICATIONS

The Computer Graphics Applications Associate Degree and Certificate program is structured to enable students to pursue a course of study and computer experience in career areas that rely on computer graphics applications. This program is designed to prepare students for employment, transfer to four year institutions, or to allow employees within these industries to upgrade their skills.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Proficiently operate software, hardware, and equipment according to industry standards.
2. Design and develop products and procedures for digital imaging, design, animation, and current and emerging technologies.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 19 UNITS
ART 120 (1) Basic Drawing ................................................................. 3
ART 124 (2) Color and 2-D Foundation Design .................................................. 3
CMGR 202 (1) Introduction to Computer Graphics ................................................. 3
CMGR 213 (3) Applied Computer Graphics ............................................................ 3
CMGR 215 (3) Business Presentation Graphics ..................................................... 3
CMGR 235 (NP) Beginning Photoshop ................................................................. 3
CMGR 219 (4) Computer Graphics Portfolio Review .............................................. 1

CHOOSE ONE OF THE FOLLOWING AREAS AND COMPLETE 9 UNITS
DIGITAL DESIGN- COMPLETE 9 UNITS
CMGR 217 (NP) Computer Illustration Software .................................................. 3
CMGR 252 (NP) Desktop Publishing for Computer Graphics ................................ 3
CMGR 236 (NP) Advanced Photoshop ................................................................. 3

WEB DESIGN- COMPLETE 9 UNITS
CMGR 263 (NP) Internet Literacy ................................................................. 3
CMGR 267 (NP) Dreamweaver in Web Site Design ............................................. 3
CMGR 266 (NP) Interactive Media Design and Development .............................. 3

ANIMATION AND 3-D- COMPLETE 9 UNITS
CMGR 225 (2) 3D Graphics and Animation .......................................................... 3
CMGR 226 (3) 3D Graphics and Animation 2 ................................................. 3
CMGR 284 (3) Beginning After Effects ................................................................. 3

TOTAL UNITS IN A.S. MAJOR .................................................................................. 28

CERTIFICATE OF ACHIEVEMENT: COMPUTER GRAPHICS APPLICATIONS

The Computer Graphics Applications Associate Degree and Certificate program is structured to enable students to pursue a course of study and computer experience in career areas that rely on computer graphics applications. This program is designed to prepare students for employment, transfer to four year institutions, or to allow employees within these industries to upgrade their skills.
PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Design and develop products and procedures for digital imaging, design, animation, and current and emerging technologies.
2. Proficiently operate software, hardware, and equipment according to industry standards.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 15 UNITS

ART 124 [2]  Color and 2-D Foundation Design ..................................................3
CMPGR 202 [1]  Introduction to Computer Graphics ..................................................3

ELECTIVE COURSES - COMPLETE 6 UNITS

ART 120 [NP]  Basic Drawing I .................................................................3
CMPGR 225 [NP]  3D Graphics and Animation ..................................................3
CMPGR 236 [NP]  Advanced Photoshop .........................................................3
CMPGR 266 [NP]  Interactive Media Design and Development .....................3
CMPGR 267 [NP]  Dreamweaver in Web Site Design ......................................3
CMPGR 284 [NP]  Beginning After Effects ..................................................3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ................. 21

A.S. DEGREE: COMPUTER INFORMATION SYSTEMS

The Business Computer Information Systems program is designed for students who plan to specialize in business computer applications at a four-year college. Students who wish to declare this transfer major should ask for program planning assistance from a business program advisor. Transfer institutions vary in lower division (first two years of college) major department requirements. Meeting the Modesto Junior College Associate Degree major requirements does not necessarily mean a given transfer institution’s major requirements have been met.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Design and develop products and procedures for digital imaging, design, animation, and current and emerging technologies.
2. Proficiently operate software, hardware, and equipment according to industry standards.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 103) which include completion of the requirements below. Students are urged to meet with a Computer Science faculty advisor to assist them plan their specific program for graduation.

REQUIRED COURSES - COMPLETE 21 UNITS

CSCI 220 [1]  Business Information Systems .......................................................3
BUSAD 201 [1]  Financial Accounting ..............................................................4
BUSAD 202 [2]  Managerial Accounting ..........................................................4

TOTAL UNITS IN A.S. MAJOR ............................................................. 21

Computer Information Systems PROGRAM
(209) 575-6129

The Business Computer Information Systems program is designed for students who plan to specialize in business computer applications at a four-year college. Students who wish to declare this transfer major should ask for program planning assistance from a business program advisor. Transfer institutions vary in lower division (first two years of college) major department requirements. Meeting the Modesto Junior College Associate Degree major requirements does not necessarily mean a given transfer institution’s major requirements have been met.

Computer Programming Specialist PROGRAM
(209) 575-6129

CERTIFICATE OF ACHIEVEMENT: COMPUTER PROGRAMMING SPECIALIST

This Certificate of Achievement will prepare students to work as an entry level programmer in the areas of JAVA programming, C++ programming, or Visual BASIC programming.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate a firm understanding and working knowledge of basic problem analysis, design, implementation, and maintenance.
2. Be prepared to obtain employment in an entry-level position in software engineering.
3. Employ industry-accepted coding practices and standards.
4. Implement object oriented software solutions.
5. Employ various code level debugging techniques.
6. Utilize software development tools.
7. Perform functional software testing.
8. Demonstrate professional and effective communication skills.

To earn a Certificate of Achievement Award, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES – COMPLETE 12 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 270</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 271</td>
<td>Problem Solving and Programming 1</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 210</td>
<td>Intro to UNIX/Linux Syst &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Programming With Visual Basic</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES – COMPLETE 3-4 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 222</td>
<td>Advanced Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 252</td>
<td>Script Programming for the Web</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 272</td>
<td>Problem Solving and Programming 2</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 274</td>
<td>Windows Programming With Visual Studio</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD** 15-16

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**Program Requirements**

To receive an Associate of Science in Computer Science for Transfer (AS-T in Computer Science) degree:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   - The California State University-General Education-Breadth pattern (CSU GE Breadth), or
   - The Intersegmental General Education Transfer Curriculum (IGETC) pattern.
2. A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.

*All courses within the ADTs also require that students must earn a C or better or a “P” (Pass) in all courses required for the major or area of emphasis.*

**Program Learning Outcomes**

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe the organizational structure of computer hardware and its connection to computer software.
2. Describe how formal tools of symbolic logic and discrete structures are used to model real-life situations and relate the ideas of computational induction to recursion and recursively defined structures.
3. Design, implement, test, and debug algorithms to solve a variety of problems.
4. Design, implement, test, and debug computer programs using fundamental constructs and a variety of data structures.
5. Apply structured and object-oriented approaches to the design and implementation of computer programs.

**Required Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 204</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 271</td>
<td>Problem Solving and Programming 1</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 272</td>
<td>Problem Solving and Programming 2</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 273</td>
<td>Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 171</td>
<td>Calculus: First Course</td>
<td>4</td>
</tr>
<tr>
<td>MATH 172</td>
<td>Calculus: Second Course</td>
<td>4</td>
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<tr>
<td>PHYS 101</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 103</td>
<td>General Physics: Electricity, Magnetism, &amp; Modern Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units Required in A.S.-T Major** 28

**Total Units That May Be Double-Counted** 7

**Completion of CSU Breadth or IGETC (CSU)** 37-39

**Elective (CSU Transferable) Units** 2

**Total Units Required for A.S.-T Degree** 60

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.*
A.S. DEGREE: COMPUTER SCIENCE

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate preparedness to successfully enter local industry as a software programmer, network specialist, or information systems specialist depending of degree option completed.
2. Configure and use computer hardware and software to solve most entry level business application requirements.
3. Plan, design, and implement solutions to standard computing problems.
4. Make informed assessments of the quality and effectiveness software implementations, including their own.
5. Assist and help provide training to employers in local area businesses.
6. Demonstrate a high level of communication skills.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below. Students are urged to meet with a Computer Science faculty advisor to assist them plan their specific program for graduation.

IMPORTANT: This program is intended to be a Transfer Program guide only. Associate Degree Requirements, general education patterns, and junior standing requirements are subject to change. It is the student’s responsibility to consult the catalog for the targeted college/university. Students may consult a business division advisor for a sample four-semester plan and more detailed program-planning guidance.

REQUIRED OPTION - COMPLETE ONE OPTION FOR 30-31 UNITS

INFORMATION SYSTEMS OPTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CSCI 200</td>
<td>Technical Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 270</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 230</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 220</td>
<td>Business Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Programming With Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 253</td>
<td>Web Database Development</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 231</td>
<td>Database Programming with SQL</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 223</td>
<td>Spreadsheet Software</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 232</td>
<td>Database Server Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 290</td>
<td>Computer Science Final Project</td>
<td>3</td>
</tr>
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</table>

NETWORKING OPTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CSCI 270</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 240</td>
<td>Networking Essentials</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 210</td>
<td>Intro to UNIX/Linux Syst &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 232</td>
<td>Database Server Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 219</td>
<td>Windows Server OS</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 231</td>
<td>Database Programming with SQL</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 241</td>
<td>Advanced Networking and Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 242</td>
<td>Directory Services</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 220</td>
<td>Business Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 290</td>
<td>Computer Science Final Project</td>
<td>3</td>
</tr>
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</table>

PROGRAMMING OPTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 201</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 270</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 271</td>
<td>Problem Solving and Programming 1</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 210</td>
<td>Intro to UNIX/Linux Syst &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Programming With Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 222</td>
<td>Advanced Visual BASIC</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 252</td>
<td>Script Programming for the Web</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 272</td>
<td>Problem Solving and Programming 2</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 273</td>
<td>Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 290</td>
<td>Computer Science Final Project</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR ...........................................30-31

Dance

PROGRAM

(209) 575-6081

A.A. DEGREE: DANCE

The Associate in Arts in Dance is intended for students who plan to enter the workforce as a choreographer, teacher or performing artist. Dance as an academic discipline focuses on dance as a performing art, as well as its social functions in other areas, including education, health, cultural studies, art, history, and the science of human movement. This degree provides an educational and practical foundation for students pursuing a professional career in dance. It is designed to create avenues toward further study in educational dance, intermediate to advanced technique, choreography, and dance performance. The Associate Degree in Dance will prepare students to gain entry level employment with private dance studios, charter schools and recreational programs with a dance emphasis. Career opportunities also exist in highly competitive professional dance companies, amusement parks, commercial dance, and teaching. There are choreography opportunities with dance and theatre companies. Students should be aware that career opportunities in dance performance related fields are highly competitive.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:

1. Demonstrate and apply knowledge of the history of dance as it relates to western culture, including Ballet, Modern, Jazz, Musical Theatre, and ethnic forms of dance.
2. Demonstrate technical ability to at least the intermediate level in modern, ballet, and jazz dance.
3. Process a mastery of dance terminology as it relates to technical skill in modern, ballet, and jazz dance.
4. Create dance choreography using the principles of composition for in class demonstrations or live public performances.

PROGRAM REQUIREMENTS

To earn an Associate in Arts Degree in this major, the student must complete the requirements detailed in the University Preparation Pathway which include completion of the requirements below. Students who plan to transfer to a four year college or university should consult with a Dance faculty advisor to ensure that all required transfer courses are completed.
### Required Courses - Complete 11 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 111</td>
<td>Modern Dance 1</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Modern Dance 2</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 121</td>
<td>Ballet 1</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 131</td>
<td>Jazz 1</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 155</td>
<td>Fundamentals of Choreography 1</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 181</td>
<td>Dance Rehearsal &amp; Performance 1</td>
<td>2</td>
</tr>
</tbody>
</table>

### Elective Technique Courses - Complete 5 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 113</td>
<td>Modern Dance 3</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Modern Dance 4</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 122</td>
<td>Ballet 2</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 123</td>
<td>Ballet 3</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 124</td>
<td>Ballet 4</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 132</td>
<td>Jazz 2</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 133</td>
<td>Jazz 3 Intermediate/Advanced</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 141</td>
<td>Hip Hop</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 151</td>
<td>Movement for the Performing Artist</td>
<td>1</td>
</tr>
</tbody>
</table>

### Elective Production Courses - Complete 4 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 182</td>
<td>Dance Rehearsal &amp; Performance 2</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 183</td>
<td>Dance Rehearsal &amp; Performance 3</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 184</td>
<td>Dance Rehearsal &amp; Performance 4</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 187</td>
<td>Contemporary Pop Dance Rehearsal and Performance</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 188</td>
<td>Dance Workshop Performance</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 189</td>
<td>Dance Repertory Touring Competition</td>
<td>1</td>
</tr>
<tr>
<td>THETR 190</td>
<td>Theatre Production Workshop</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units in A.A. Major: 20**

### A.S. Degree: Earth Sciences

**About This Emphasis**

This A.S. is designed as a University Preparation, Emphasis in Earth Sciences. The University Preparation degree, distinctive of the University Preparation "pathway," is designed to prepare you for transfer to a California State University (CSU) or University of California (UC) campus. This program is designed as an introductory study of the many branches of earth science, geology, oceanography, meteorology, and astronomy. Topics include the scientific method, natural resources, minerals, rocks, volcanism, plate tectonics, earthquakes, weathering, erosion, geological time, fresh water, oceans, ocean currents, the ocean floor, the atmosphere, clouds, storms, climate, the sun, the moon, the solar system, stars, interstellar matter, and the formation of the universe.

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### Program Learning Outcomes

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify, describe, and explain the causes and consequences of the various physical processes that transfer energy into, within, and out of the earth system.
2. Identify, describe, and explain the causes and consequences of the various chemical processes that control the transformation of matter within the earth system.
3. Identify, describe, and explain the causes and consequences of the various interactions between the biosphere and the physical components of the earth system.

### Emphasis Requirements

To earn an Associate in Science degree with this emphasis, the student must complete the requirements detailed in the University Preparation Pathway (p. 103) which include completion of the requirements below. See advisor for selection of courses.

### Required Courses - Complete 21 Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EASC 161</td>
<td>Earth Science</td>
<td>4 OR</td>
</tr>
<tr>
<td>GEOL 161</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 166</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics: Mechanics</td>
<td>4 OR</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>Mechanics, Heat, &amp; Waves</td>
<td>4</td>
</tr>
<tr>
<td>MATH 171</td>
<td>Calculus: First Course</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>General Chemistry 1</td>
<td>5</td>
</tr>
</tbody>
</table>

### Elective Courses - Complete 8 Units

Please refer to [www.assist.org](http://www.assist.org) for your chosen transfer university and specific major, and use that information to select at least eight units from the following list of electives. Additional courses may be required by your transfer university.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRO 151</td>
<td>Introduction to Astronomy Lab</td>
<td>1</td>
</tr>
<tr>
<td>ASTRO 160</td>
<td>Introduction to Modern Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101</td>
<td>Biological Principles</td>
<td>4</td>
</tr>
<tr>
<td>BIO 111</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry 2</td>
<td>5</td>
</tr>
<tr>
<td>EASC 162</td>
<td>Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 177XAB</td>
<td>Geology Field Studies</td>
<td>0.5 -2</td>
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<tr>
<td>GEOL 174</td>
<td>Geology Summer Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>MATH 172</td>
<td>Calculus: Second Course</td>
<td>4</td>
</tr>
<tr>
<td>METEO 161</td>
<td>Introduction to Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>NR 200</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>Mechanics, Heat, &amp; Waves</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 143</td>
<td>Electricity, Magnetism, Optics, Atomic and Nuclear Structure</td>
<td>4</td>
</tr>
<tr>
<td>ZOOL 101</td>
<td>General Zoology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units in A.S. Major: 29**
Electronics Technology
PROGRAM (209) 575-6332

A.S. DEGREE: INDUSTRIAL ELECTRONICS

The Industrial Electronics Program prepares students for careers as Engineering Technologists and Instrumentation/Automation Technicians. Students receive theoretical and laboratory instruction in electrical/electronic principles, analog and digital devices, electrical/electronic systems, sensors and controls, PLCs, PACs, industrial equipment, and control systems.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform basic troubleshooting and electrical oriented repairs an installations in accordance to industry standards.
2. Work successfully in the Power Utility, Building Trades, and/or Manufacturing Industry.
3. Comply with current electrical/engineering safety and environmental standards.
4. Natural Science (GELO): Explaining how the scientific method is used to solve problems.
5. Humanities (GELO): Demonstrating the ability to make well considered aesthetic judgments.
6. Language and Rationality (GELO): Demonstrate the ability to find, evaluate and use information in a variety of formats.

To earn an Associate in Science degree, the student must complete the MJC Associate Degree Requirements in addition the coursework below. All required courses in the program must be completed with a C or better.

REQUIRED COURSES - COMPLETE 32.5 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ELTEC 265</td>
<td>[NP] Troubleshooting Techniques</td>
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<tr>
<td>ELTEC 208</td>
<td>[1] Fundamentals of Electricity and Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 205</td>
<td>[1, 2] Electronics Fabrication and Assembly Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 320</td>
<td>[1, 2] Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td>ELTEC 223</td>
<td>[2] Industrial Electrical Components and Control Devices</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 232</td>
<td>[3] Introduction to Programmable Logic Controllers</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 221</td>
<td>[3, 4] Instrumentation Devices and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 234</td>
<td>[4] Introduction to PACs: Programmable Automation Controllers</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR .................................................. 32.5

CERTIFICATE OF ACHIEVEMENT: ELECTRICIAN

The Electrician program prepares students for careers in electrical installation and repair for the Public Utilities, Manufacturing and Construction industries. Students will study the principles of electricity, wiring, common devices, components, and PLCs.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Build circuits for power distribution or motor controls based on a schematic.
2. Perform measurements in a circuit and draw conclusions based on them for troubleshooting purposes.
3. Estimate ratings for basic components that make up an electrical circuit.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement in this major, the student must complete all courses listed in required courses category below. All required courses in the program must be completed with a C or better.

REQUIRED COURSES - COMPLETE 32.5 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTEC 265</td>
<td>[NP] Troubleshooting Techniques</td>
<td>1</td>
</tr>
<tr>
<td>ELTEC 208</td>
<td>[1] Fundamentals of Electricity and Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 320</td>
<td>[1, 2] Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td>ELTEC 223</td>
<td>[2] Industrial Electrical Components and Control Devices</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 230</td>
<td>[2, 3] Blueprint Reading for Electricians</td>
<td>2</td>
</tr>
<tr>
<td>ELTEC 235</td>
<td>[2, 3] NEC National Electrical Codes</td>
<td>4</td>
</tr>
<tr>
<td>ELTEC 221</td>
<td>[3, 4] Instrumentation Devices and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 232</td>
<td>[3, 4] Introduction to Programmable Logic Controllers</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.........................32.5
REQUIRED COURSES - COMPLETE 32.5 UNITS
ELTEC 265 [NP] Troubleshooting Techniques ........................................... 1
ELTEC 205 [1, 2] Electronics Fabrication and Assembly Techniques ....... 3
ELTEC 320 [1, 2] Electrical Safety ......................................................... 1
ELTEC 223 [2] Industrial Electrical Components and Control Devices .... 3
ELTEC 232 [3] Introduction to Programmable Logic Controllers ........... 3
ELTEC 221 [3, 4] Instrumentation Devices and Systems ......................... 3
ELTEC 234 [4] Introduction to PLCs: Programmable Automation Controllers ........................................... 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......... 32.5

SKILLS RECOGNITION AWARD: AUTOMATION TECHNICIAN

The Automation Technician Skills Recognition Award is designed for practicing technicians in the field or advanced Industrial Electronics students seeking to increase their skills in Automation and Systems Integration.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Analyze typical process lines that include conveyors, pumps, ventilation, and other commercial and industrial systems.
2. Implement modifications into existing control circuits incorporating sensing devices to enhance automated capabilities.
3. Analyze and modify typical control programs in standard PLCs, PACs, and HMIs devices.

To earn a Skills Recognition Award, the student must complete all required courses with a C or better.

REQUIRED COURSES - COMPLETE 15 UNITS
CMPT 214 [1, 2] Microprocessor Programming & Interfacing .................. 4
ELTEC 232 [1, 2] Introduction to Programmable Logic Controllers ........... 3
ELTEC 221 [2, 3] Instrumentation Devices and Systems ............................ 3
ELTEC 234 [3, 4] Introduction to PACs: Programmable Automation Controllers ........................................... 3
ELTEC 236 [4] HMI & Industrial Communications ..................................... 2

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ....................... 15

SKILLS RECOGNITION AWARD: ELECTRICAL INSTALLER

This program provides skill preparation courses intended to quickly prepare students to begin their careers in the industry as electrician assistants. Students will be exposed to basic safety, electrical theory and wiring techniques.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Perform common tasks related to electrical wiring following safety procedures, demonstrating professional quality and efficient workmanship.
2. Interpret typical schematics used in electrical installations or as descriptions of electrical controls.
3. Perform the required wiring of a standard circuit (e.g.: a 3-way lighting circuit) or a circuit shown in an electrical schematic.

To earn a Skills Recognition Award, the student must complete all required courses with a C or better.

REQUIRED COURSES - COMPLETE 12.5 UNITS
ELTEC 320 [1, 2] Electrical Safety ....................................................... 1
ELTEC 225 [2] Residential Wiring ....................................................... 3
ELTEC 230 [2, 3] Blueprint Reading for Electricians ............................... 2

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ....................... 12.5

Elementary Teacher Education PROGRAM
(209) 575-6129

A.A.-T DEGREE:
ELEMENTARY TEACHER EDUCATION

The Associate in Arts in Elementary Teacher Education for Transfer degree includes lower division coursework that is required for transfer and provides a broad overview of the fields in natural science, social sciences, humanities, composition, mathematics and critical thinking in order to prepare the future teacher for standards-based curriculum required in public schools.

The Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education) degree is intended for students who plan to complete a bachelor’s degree in elementary teacher education at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER (AA-T IN ELEMENTARY TEACHER EDUCATION) DEGREE:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
PROGRAM REQUIREMENTS

To earn an Associate in Arts for Transfer Degree in this major, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway. All courses must be completed with a C or better or "P" (Pass).

REQUIRED COURSES: 42 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCS 110</td>
<td>Introduction to Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>CLDEV 103</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>BIO 111</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>EASCI 161</td>
<td>Earth Science</td>
<td>4</td>
</tr>
<tr>
<td>PHSCH 180</td>
<td>Conceptual Physical Science: A Hands-On Approach</td>
<td>4</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Structure of Mathematics 1</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Composition and Reading</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Advanced Composition &amp; Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 110</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 106</td>
<td>World Civilization to the 16th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of the United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST A: (SELECT ONE): 3 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 103</td>
<td>Advanced Composition &amp; Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 105</td>
<td>Critical Reasoning and Analytic Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 107</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>COMM 104</td>
<td>Argumentation</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: (SELECT ONE): 3 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 160</td>
<td>Appreciation of Art</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 102</td>
<td>Intro to World Dance</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 101</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>THER 100</td>
<td>Introduction to Theatre Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST C: 12 ADDITIONAL UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Basic Drawing</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 201</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>COMM 102</td>
<td>Introduction to Human Communication</td>
<td>3 OR</td>
</tr>
<tr>
<td>COMM 106</td>
<td>Group &amp; Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 101</td>
<td>Introduction to the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 105</td>
<td>Early Humanistic Traditions</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 106</td>
<td>Humanities in the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Structure of Mathematics 2</td>
<td>3</td>
</tr>
<tr>
<td>SOCS 109</td>
<td>Introduction to Education-Practicum in Tutoring</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR THE A.A.-T MAJOR ...................................................... 48

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ............................................ 34-40
GENERAL EDUCATION (CSU-GE OR IGETC) UNITS ........................................ 37-39
ELECTIVE (CSU TRANSFERABLE UNITS) ...................................................... 9-13

TOTAL UNITS FOR THE A.A.-T MAJOR ...................................................... 60

Emergency Medical Technician PROGRAM

(209) 575-6332

SKILLS RECOGNITION: EMERGENCY MEDICAL TECHNICIAN

The Emergency Medical Technician-Basic (EMT-Basic) program, provides the student with an outline of the EMS system, introduces assessment skills, as well as provides pathophysiology of common neurological, respiratory, and cardiac related emergencies. The EMT-1 program prepares emergency medical technicians for the National Registry EMT Basic Exam. Upon successful completion EMTs may perform as ambulance attendants, fire emergency responders, or practice in private industry. It covers techniques of emergency medical care presently considered within the responsibilities of the emergency medical technician, and emphasizes the development of student skills in recognition of symptoms of illnesses and injuries and proper procedures of emergency care. Successful EMT-Basic students may find employment with fire agencies, private ambulance companies, California Department of Forestry, ER techs, and other assorted jobs. Many successful EMT-1 students have also gone onto paramedic school, medical school, nursing school, physician’s assistant school, and other associated allied health professions.

PROGRAM REQUIREMENTS

Upon satisfactory completion of this award, the student should be prepared to:

1. Pass the National Registry Exam for certification as an Emergency Medical Technician.
2. Demonstrate compliance with regulations of the National Registry of Emergency Medical Technician.

Course expenses vary for each individual. The estimated cost for EMS 390 is $250-450 which includes enrollment and materials fees, health clearance, books, and certification examination. For information on Financial Aid, call (209) 575-7700. To earn a Skills Recognition Award, the student must complete the following required course with a grade of C or better.

REQUIRED COURSES

To earn a Skills Recognition Award, the student must complete the following required course with a grade of C or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 390</td>
<td>Emergency Medical Technician 1</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ........................................... 6

POLICY FOR DENIAL OF CERTIFICATION

The law provides for denial of certification for crimes or acts that may in any way be related to pre-hospital medical care i.e., sex crimes, drug crimes and crimes of violence or dishonesty. In such cases it is the applicant’s responsibility to present sufficient evidence of rehabilitation to the Mountain-Valley Emergency Medical Services Agency prior to applying for certification. The Mountain-Valley EMS Agency will evaluate applicants individually. Any student considering a career as an Emergency Medical Technician, who might be denied certification, is advised to address this issue with this agency prior to taking this course.

Mountain-Valley Emergency Medical Services Agency
1101 Standiford Ave., Suite D1
Modesto, CA 95350
(209) 529-5085
For those who love to read, write, interpret, and create, majoring or minoring in English is the right choice. English courses are designed to give proficiency in skills that are highly regarded by society: the ability to read with comprehension and critical judgment, to communicate accurately and effectively both orally and in writing, to think logically, to do research and organize materials, and to interpret and appreciate literature. The English major can lead to a career in teaching as well as in professional fields such as law, medicine, publishing, information science, and business. In addition to pre-collegiate composition courses (ENGL 49 and ENGL 50) and transfer-level courses (ENGL 101, ENGL 102, and ENGL 103), the English program includes survey courses in English, American and world literature; introductory genre courses in poetry, fiction, and drama; and a number of topical courses such as Shakespeare, Bible as literature, ethnic literatures, folklore, and children's literature. The program also offers creative writing courses in poetry, and fiction. English majors choose to take survey, writing, and literature courses based upon their areas of interest, but they should include a balanced load of genre and survey courses. Many students who become English majors at four-year colleges and universities are required to take introductory survey courses in American and British literature (ENGL 135, ENGL 136, ENGL 137, and ENGL 138). However, prospective English majors and minors are strongly urged to discuss their plans with MJC counselors and English faculty advisors regarding the specific lower-division requirements at the four-year colleges and universities they plan to attend.

The program also offers creative writing courses in poetry, and fiction. English majors choose to take survey, writing, and literature courses based upon their areas of interest, but they should include a balanced load of genre and survey courses. Many students who become English majors at four-year colleges and universities are required to take introductory survey courses in American and British literature (ENGL 135, ENGL 136, ENGL 137, and ENGL 138). However, prospective English majors and minors are strongly urged to discuss their plans with MJC counselors and English faculty advisors regarding the specific lower-division requirements at the four-year colleges and universities they plan to attend.

A.A.-T DEGREE: ENGLISH

The Associate in Arts in English for Transfer (AA-T in English) degree includes lower division coursework that is required for transfer. The Associate in Arts in English for Transfer (AA-T in English) is designed for those who love to read, write, interpret, and create. A baccalaureate degree in English can lead to a career in teaching as well as in professional fields such as law, medicine, publishing, information science, and business. The English program includes survey courses in English, American, and world literature; introductory genre courses in poetry, fiction, and drama; and a number of topical courses such as Shakespeare, Bible as literature, ethnic literature, folklore, and children's literature. The program also offers creative writing courses in poetry and fiction.

ENGLISH PROGRAM
(209) 575-6159
The Associate in Arts in English for Transfer (AA-T in English) degree is intended for students who plan to complete a bachelor's degree in English at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Read, comprehend, and evaluate a variety of texts and various forms of media.
2. Write clear, organized work in a style suited for its purpose and audience.
3. Create professional-looking written work that shows careful editing and properly document sources.
4. Demonstrate an appreciation of literature by reading and analyzing works from various genres, periods, and cultures.

The following is required for the Associate in Arts in English for Transfer degree:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better or "P" (Pass).

* Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

**REQUIRED CORE: 6 UNITS**

- ENGL 103 [NP] Advanced Composition & Critical Thinking ...................................... 3
- ENGL 102 [NP] Advanced Composition & Introduction to Literature ....................... 3

**LIST A: (SELECT TWO) 6 UNITS**

- ENGL 135 [NP] Survey of American Literature to 1850 ........................................ 3
- ENGL 136 [NP] Survey of American Literature: 1850 to the Present ...................... 3
- ENGL 137 [NP] Survey of English Literature to the late 18th Century .................... 3
- ENGL 138 [NP] Survey of English Literature: Late Eighteenth Century to Present .. 3
- ENGL 131 [NP] Introduction to World Literature 1 ............................................... 3
- ENGL 132 [NP] Introduction to World Literature 2 ............................................... 3

**LIST B: (SELECT ONE) 3 UNITS**

Any course from List A not already used ................................................................. 3

- ENGL 105 [NP] Creative Writing: Poetry ............................................................ 3
- ENGL 106 [NP] Creative Writing: Short Fiction .................................................... 3
- ENGL 112 [NP] Introduction to the Novel and Short Story .................................... 3
- ENGL 114 [NP] Introduction to Poetry ................................................................. 3
- ENGL 116 [NP] Introduction to Drama ................................................................. 3
- ENGL 151 [NP] Folklore ...................................................................................... 3
- ENGL 163 [NP] Introduction to Shakespeare ......................................................... 3
- ENGL 171 [NP] Introduction to African-American Literature ............................. 3
- ENGL 179 [NP] Intro to Native American Lit, Mythology, and the Oral Tradition .. 3

**LIST C: (SELECT ONE) 3 UNITS**

- ENGL 111 [NP] Creative Writing: Creative Nonfiction ....................................... 3
- ENGL 156 [NP] The Bible As Literature: The Hebrew Canon and Intertestamental Writings .............................................................. 3

ENGL 161 [NP] Film Appreciation ....................................................................... 3
ENGL 162 [NP] History of Cinema ....................................................................... 3
ENGL 168 [NP] Adolescent Literature ................................................................. 3
ENGL 169 [NP] Children's Literature .................................................................... 3
ENGL 172 [NP] Intro to Chicano/a Literature .......................................................... 3
ENGL 173 [NP] Intro to Latin American Literature .................................................. 3
ENGL 175 [NP] Introduction to Women's Literature ............................................... 3

**TOTAL UNITS REQUIRED IN A.A.-T MAJOR .................................................. 18**

**TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ......................................... 6**

**GENERAL EDUCATION (CSU-GE OR IGETC) UNITS ........................................ 37-39**

**ELECTIVE (CSU TRANSFERABLE) UNITS ..................................................... 9-11**

**TOTAL UNITS REQUIRED FOR A.A.-T DEGREE ........................................ 60**

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**Environmental Horticulture Science**

**PROGRAM**

(209) 575-6200

**A.S. DEGREE: ENVIRONMENTAL HORTICULTURAL SCIENCE**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify and appraise the educational requirements for career opportunities in the horticulture industry.
2. Perform nursery practices necessary to be successful in the horticulture industry.
3. Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, and growth habits, for each.
4. Demonstrate the effective work habits and inter-personal communication skills required by employers in the horticulture industry.

**MAJOR REQUIREMENTS**

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

**I. AGRICULTURE CAREER COURSES — COMPLETE 5 UNITS**

- AG 115 * [1] Introduction to Agricultural Education & Careers ....................... 1
- AG 249 ** [4] Agriculture Internship ................................................................. 2
- AG 259A-D ** [NP] Agricultural Work Experience .............................................. 1-4
II. AGRICULTURE SCIENCE BREADTH COURSES – COMPLETE 6 UNITS

ANSC 200 [NP] Introduction to Animal Science ............................................... 3
NR 200 [NP] Soils ..................................................................................... 3
AGM 200 [NP] Introduction to Mechanical Technology ................................... 3
AGEC 225 [NP] Agriculture Computer Applications......................................... 3 OR
AGEC 210 [NP] Elements of Agricultural Economics ....................................... 3 OR
AGEC 200 [NP] Agricultural Accounting and Analysis ....................................... 3

III. AGRICULTURE MAJOR COURSES – COMPLETE 12 UNITS

PLSC 200 [NP] Introduction to Plant Science ................................................... 3
EHS 201 [NP] Plant Identification & Usage 1 .................................................. 3
EHS 202 [NP] Plant Identification & Usage 2 .................................................. 3
EHS 210 [NP] Introduction to Environmental Horticulture Science ..................... 3

IV. AGRICULTURE MAJOR ELECTIVES – COMPLETE 7 UNITS

EHS 215 [NP] Landscape Design .................................................................. 3
EHS 220 [NP] Turfgrass Management ............................................................. 3
EHS 235 [NP] Plant Propagation/Production .................................................... 3
EHS 276 [NP] Landscape Maintenance ............................................................ 3
EHS 278 [NP] Landscape Construction and Installation ..................................... 3
EHS 280 [NP] Principles of Floral Art and Design .......................................... 3
EHS 281 [NP] Advanced Floral Design ............................................................ 3
NR 222 [NP] Native Tree and Shrub Identification .......................................... 3
PLSC 250 [NP] Plant Nutrition and Fertilizer .................................................. 3
PLSC 255 [NP] Plant Pest Control ................................................................. 3
PLSC 260 [NP] Plant Disease Control .............................................................. 3

TOTAL UNITS IN A.S. MAJOR ....................................................................... 30

*Required
**Internship/Work Experience must be Agriculture related.

Note: For Section I. Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259B, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

CERTIFICATE OF ACHIEVEMENT: COMMERCIAL FLORISTRY TECHNICIAN

The Commercial Floristry Program prepares students to enter the field of Floral Design and Flower Shop Management. The program is designed to provide entry level skills, and further, to prepare students for advancement within this ever-changing and dynamic industry.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate general nursery practices of the industry, including transplanting, plant identification, identification of health related issues, and general horticulture practices necessary to be successful in the horticulture industry.
2. List at least five career opportunities in the horticulture industry, both locally and within the State of California and the United States.
3. Identify 300 plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.
4. Demonstrate good work habits and interpersonal communication skills that employers demand.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. AGRICULTURE CAREER COURSES – COMPLETE 5 UNITS

AG 115* [1] Introduction to Agricultural Education & Careers .......................... 1
AG 259 A-D** [1] Agricultural Work Experience ............................................ 4 OR
AG 249** [NP] Agriculture Internship ......................................................... 2

II. AGRICULTURE SCIENCE BREADTH COURSES – COMPLETE 9 UNITS

PLSC 200 [1] Introduction to Plant Science .................................................... 3
NR 200 [NP] Soils ......................................................................................... 3
AGM 200 [NP] Introduction to Mechanical Technology .................................... 3
AGEC 225 [NP] Agriculture Computer Applications ........................................ 3 OR
AGEC 210 [NP] Elements of Agricultural Economics ....................................... 3 OR
AGEC 200 [2] Agricultural Accounting and Analysis ....................................... 3

III. AGRICULTURE MAJOR COURSES – COMPLETE 21 UNITS

EHS 201 [1, 2] Plant Identification & Usage 1 .................................................. 3
EHS 210 [1] Introduction to Environmental Horticulture Science ..................... 3
EHS 280 [1] Principles of Floral Art and Design ............................................. 3
EHS 281 [2, 3, 4] Advanced Floral Design ....................................................... 3
AGEC 280 [4] Agricultural Sales and Service .................................................. 3
COMM 102 [1] Introduction to Human Communication .................................... 3
PLSC 255 [NP] Plant Pest Control ................................................................. 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................. 35

*Required
**Internship/Work Experience must be Agriculture related.

CERTIFICATE OF ACHIEVEMENT: LANDSCAPE AND PARK MAINTENANCE

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform practices related to the maintenance of residential and commercial landscapes.
2. Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.
3. Demonstrate effective work habits and interpersonal communication skills required by employers in the landscape and park maintenance industry.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. MAJOR REQUIRED COURSES – COMPLETE 21 UNITS

EHS 201 [1, 2] Plant Identification & Usage 1 .................................................. 3
EHS 202 [1, 2] Plant Identification & Usage 2 .................................................. 3
EHS 210 [1] Introduction to Environmental Horticulture Science ..................... 3
EHS 276 [1, 2] Landscape Maintenance ............................................................ 3
EHS 278 [3, 4] Landscape Construction and Installation ..................................... 3
NR 200 [1, 2] Soils ......................................................................................... 3
PLSC 200 [1, 2] Introduction to Plant Science .................................................. 3

II. AGRICULTURE MAJOR ELECTIVES – COMPLETE 3 UNITS

AGM 200 [2, 3] Introduction to Mechanical Technology .................................... 3
AGM 215 [2, 3] Machinery Management .......................................................... 3
AGM 230 [3, 4] Field Surveying ................................................................. 2
EHS 220 [3, 4] Turfgrass Management ............................................................. 3
NR 222 [3] Native Tree and Shrub Identification ............................................. 3
CERTIFICATE OF ACHIEVEMENT: Landscape Design

The Landscape Design program prepares students to enter the field of landscape design at the entry level. The program is for students interested in learning the more pragmatic applications aspect of landscaping and is directed to the application of established scientific and engineering knowledge and methods.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. List at least five career opportunities in the horticulture industry, both locally and within the State of California and the United States.
2. Demonstrate general nursery practices of the industry, including transplanting, plant identification, identification of health related issues, and general horticulture practices necessary to be successful in the nursery industry.
3. Identify 300 plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.
4. Demonstrate good work habits and interpersonal communication skills that employers demand.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 20 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR 200</td>
<td>2</td>
<td>Soils</td>
</tr>
<tr>
<td>EHS 201</td>
<td>1, 2</td>
<td>Plant Identification &amp; Usage 1</td>
</tr>
<tr>
<td>EHS 202</td>
<td>1, 2</td>
<td>Plant Identification &amp; Usage 2</td>
</tr>
<tr>
<td>EHS 210</td>
<td>1</td>
<td>Introduction to Environmental Horticulture Science</td>
</tr>
<tr>
<td>EHS 215</td>
<td>3</td>
<td>Landscape Design</td>
</tr>
<tr>
<td>AG 115</td>
<td>1</td>
<td>Introduction to Agricultural Education &amp; Careers</td>
</tr>
<tr>
<td>AG 259A-D</td>
<td>NP</td>
<td>Agriculture Work Experience</td>
</tr>
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</table>

ELECTIVE COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 276</td>
<td>NP</td>
<td>Landscape Maintenance</td>
</tr>
<tr>
<td>EHS 278</td>
<td>NP</td>
<td>Landscape Construction and Installation</td>
</tr>
<tr>
<td>NR 222</td>
<td>NP</td>
<td>Native Tree and Shrub Identification</td>
</tr>
<tr>
<td>CSCI 201</td>
<td>NP</td>
<td>General Computer Literacy</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>NP</td>
<td>Agriculture Computer Applications</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD........................................ 29

CERTIFICATE OF ACHIEVEMENT: Nursery Production

In this program, the student will develop skills relating to plant identification, propagation, and growing for sale, operations, and maintenance of plant nursery equipment and structures. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform nursery practices necessary to be successful in the nursery production industry.
2. Identify nursery plants grown in California and describe the cultural characteristics and growth habits for each.
3. Demonstrate the effective work habits and interpersonal communication skills required by employers in the nursery production industry.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

MAJOR REQUIRED COURSES - COMPLETE 15 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS 201</td>
<td>1, 2</td>
<td>Plant Identification &amp; Usage 1</td>
</tr>
<tr>
<td>EHS 202</td>
<td>1, 2</td>
<td>Plant Identification &amp; Usage 2</td>
</tr>
<tr>
<td>EHS 210</td>
<td>1</td>
<td>Introduction to Environmental Horticulture Science</td>
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<tr>
<td>EHS 235</td>
<td>NP</td>
<td>Plant Propagation/Production</td>
</tr>
<tr>
<td>NR 200</td>
<td>1, 2</td>
<td>Soils</td>
</tr>
</tbody>
</table>

AGRICULTURE MAJOR ELECTIVES - COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 289</td>
<td>2, 4</td>
<td>Principles of Power Mechanics/Small Engines</td>
</tr>
<tr>
<td>EHS 215</td>
<td>3</td>
<td>Landscape Design</td>
</tr>
<tr>
<td>EHS 276</td>
<td>1, 2</td>
<td>Landscape Maintenance</td>
</tr>
<tr>
<td>EHS 278</td>
<td>3, 4</td>
<td>Landscape Construction and Installation</td>
</tr>
<tr>
<td>NR 222</td>
<td>3</td>
<td>Native Tree and Shrub Identification</td>
</tr>
<tr>
<td>PLSC 250</td>
<td>2, 3</td>
<td>Plant Nutrition and Fertilizer</td>
</tr>
<tr>
<td>PLSC 255</td>
<td>NP</td>
<td>Plant Pest Control</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD........................................ 21

Ethnic Studies

PROGRAM
(209) 575-6129

SKILLS RECOGNITION: ETHNIC STUDIES

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Understand how race and ethnic relations have been shaped by economic, social, cultural, and political realities.
2. Demonstrate familiarity with various methodological approaches to the terrains of race and ethnicity, especially in their relation to identity, inequality, culture, and history.

To earn a Skills Recognition Award the student must complete the following coursework. Each course must be completed with a grade of C or better.
I. INTERNATIONAL STUDIES OPTION:

A. EXAMINING CULTURE THROUGH THE ARTS AND LITERATURE - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 169</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 131</td>
<td>Introduction to World Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 122</td>
<td>Introduction to World Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 151</td>
<td>Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 173</td>
<td>Intro to Latin American Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 102</td>
<td>Introduction to World Music</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
<td>3</td>
</tr>
</tbody>
</table>

B. EXAMINING HISTORICAL AND POLITICAL PERSPECTIVES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 208</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 106</td>
<td>World Civilization to the 16th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 125</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 110</td>
<td>International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

C. EXPLORING CULTURAL AND SOCIOLOGICAL ISSUES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 140</td>
<td>Magic, Witchcraft, and Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANTHR 150</td>
<td>Native People of North America</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 130</td>
<td>Introduction to Western Religions</td>
<td>3</td>
</tr>
<tr>
<td>SOCSC 105</td>
<td>Women's Studies</td>
<td>3</td>
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</tbody>
</table>

II. DOMESTIC STUDIES OPTION

A. EXAMINING CULTURE THROUGH ARTS AND LITERATURE - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 171</td>
<td>Introduction to African-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 172</td>
<td>Introduction to Chicano/a Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 179</td>
<td>Intro to Native American Lit., Mythology, and the Oral Tradition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 112</td>
<td>Introduction to Chicano/a Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

B. EXAMINING HISTORICAL AND POLITICAL PERSPECTIVES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 113</td>
<td>Social and Cultural Hist of the U.S. prior to the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 119</td>
<td>Social and Cultural Hist. of 20th Century America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 128</td>
<td>The American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 154</td>
<td>African Americans through the 19th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 155</td>
<td>African Americans in the 20th and 21st Centuries</td>
<td>3</td>
</tr>
</tbody>
</table>

C. EXPLORING CULTURAL AND SOCIOLOGICAL ISSUES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLDD 262</td>
<td>Diversity in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td>SOCSC 150</td>
<td>Ethnicity and Culture in America</td>
<td>3</td>
</tr>
<tr>
<td>SOCSC 154</td>
<td>African-American Cultures and Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOCSC 156</td>
<td>Mexican Culture in the United States</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD .................................................. 15

---

**Fire Academy**

**PROGRAM**

(209) 548 – 5706

**SKILLS RECOGNITION: FIRE ACADEMY**

The Fire Academy Skills Recognition Award verifies the satisfactory completion of the educational standards for Fire Fighter 1. The Academy does not meet the experience requirement for State Fire Marshal certification, but it does meet the educational and training requirements. Completion will be provided by the Technical Education division.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with state Fire Training Requirements for Firefighter I.
2. Demonstrate compliance with National Fire Protection Association Standards.

**REQUIRED PREPARATION**

- Satisfactory completion of FSCI 301 and EMS 350 or EMS 390 with a grade of C or better.
- Satisfactory completion of a physical agility test with a valid CPAT card.
- Physician’s statement of student health.

**REQUIRED COURSE - COMPLETE 17 UNITS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 362</td>
<td>Basic Fire Academy</td>
<td>8</td>
</tr>
<tr>
<td>FSCI 363</td>
<td>Advanced Fire Academy</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD .................................................. 17**

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**Fire Science**

**PROGRAM**

(209) 548-5706

**A.S. DEGREE: FIRE SCIENCE**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.
2. Demonstrate compliance with California State Fire Training Standards for Firefighter I.
3. Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.
4. Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.
5. Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.
6. Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements for Certificate of Achievement in Fire Science Courses.

**REQUIRED COURSE - COMPLETE 3 UNITS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 301</td>
<td>Fire Protection Organization 3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE 27 UNITS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 302</td>
<td>Fire Prevention Technology 3</td>
</tr>
<tr>
<td>FSCI 303</td>
<td>Fire Protection Equipment &amp; Systems 3</td>
</tr>
<tr>
<td>FSCI 304</td>
<td>Building Construction for Fire Protection 3</td>
</tr>
<tr>
<td>FSCI 305</td>
<td>Fire Behavior and Combustion 3</td>
</tr>
<tr>
<td>FSCI 309</td>
<td>Fire Management 2E 2.5</td>
</tr>
<tr>
<td>FSCI 311</td>
<td>Rescue Systems 1 2</td>
</tr>
<tr>
<td>FSCI 322</td>
<td>Fire Service Career Development/Promotions 3</td>
</tr>
<tr>
<td>FSCI 323</td>
<td>Fire Hydraulics 3</td>
</tr>
<tr>
<td>FSCI 327</td>
<td>Fire Apparatus and Equipment 3</td>
</tr>
<tr>
<td>FSCI 328</td>
<td>Investigation of Fires 3</td>
</tr>
<tr>
<td>FSCI 332</td>
<td>Fire Science Tactics &amp; Strategy 3</td>
</tr>
<tr>
<td>FSCI 336</td>
<td>Rescue Practices 3</td>
</tr>
<tr>
<td>FSCI 337</td>
<td>Wildland Fire Control 2.5</td>
</tr>
<tr>
<td>FSCI 347</td>
<td>Fire Prevention 1C 2.5</td>
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<tr>
<td>FSCI 350</td>
<td>Fire Command 1A 2</td>
</tr>
<tr>
<td>FSCI 351</td>
<td>Fire Command 1B 2</td>
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<tr>
<td>FSCI 352</td>
<td>Training Instructor 1A 2.5</td>
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<tr>
<td>FSCI 353</td>
<td>Training Instructor 1B 2.5</td>
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<tr>
<td>FSCI 354</td>
<td>Fire Prevention 1A 2.5</td>
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<tr>
<td>FSCI 355</td>
<td>Fire Prevention 1B 2.5</td>
</tr>
<tr>
<td>FSCI 356</td>
<td>Fire Management 1 2.5</td>
</tr>
<tr>
<td>FSCI 357</td>
<td>Fire Investigation 1 2.5</td>
</tr>
<tr>
<td>FSCI 362</td>
<td>Basic Fire Academy 8</td>
</tr>
<tr>
<td>FSCI 363</td>
<td>Advanced Fire Academy 9</td>
</tr>
<tr>
<td>FSCI 364</td>
<td>Fire Apparatus Driver/Operator 1A 2</td>
</tr>
<tr>
<td>FSCI 366</td>
<td>Fire Apparatus Driver/Operator 1B 2</td>
</tr>
<tr>
<td>FSCI 371</td>
<td>Fire Command 2A 2.5</td>
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<tr>
<td>FSCI 372</td>
<td>Fire Management 2B 2.5</td>
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<td>FSCI 373</td>
<td>Fire Instructor 2A 2.5</td>
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<td>FSCI 374</td>
<td>Fire Instructor 2B 2.5</td>
</tr>
<tr>
<td>EMS 350</td>
<td>First Responder with Healthcare Provider CPR 3</td>
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<tr>
<td>EMS 380</td>
<td>Basic ECG Interp/Intro to Cardiac Care 3</td>
</tr>
<tr>
<td>EMS 389</td>
<td>Emergency Medical Technician 1 - Clinical 0.5</td>
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<tr>
<td>EMS 390</td>
<td>Emergency Medical Technician 1 - Clinical 0.5</td>
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<tr>
<td>EMS 391</td>
<td>EMT 1 - Refresher Course 1.5</td>
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</table>

**TOTAL UNITS IN A.S. MAJOR** 30

---

**CERTIFICATE OF ACHIEVEMENT: FIRE SCIENCE**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.
2. Demonstrate compliance with California State Fire Training Standards for Firefighter I.
3. Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.
4. Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.
5. Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.
6. Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.

To earn a Certificate of Achievement, the student must complete the coursework as indicated below. Each course must be completed with a grade of C or better.

**REQUIRED COURSE - COMPLETE 3 UNITS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 301</td>
<td>Fire Protection Organization 3</td>
</tr>
</tbody>
</table>

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<td>FSCI 328</td>
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<td>Rescue Practices 3</td>
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<tr>
<td>FSCI 337</td>
<td>Wildland Fire Control 2.5</td>
</tr>
<tr>
<td>FSCI 347</td>
<td>Fire Prevention 1C 2.5</td>
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<tr>
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<td>Fire Command 1A 2</td>
</tr>
<tr>
<td>FSCI 351</td>
<td>Fire Command 1B 2</td>
</tr>
<tr>
<td>FSCI 352</td>
<td>Training Instructor 1A 2.5</td>
</tr>
<tr>
<td>FSCI 353</td>
<td>Training Instructor 1B 2.5</td>
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<td>FSCI 354</td>
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<tr>
<td>FSCI 355</td>
<td>Fire Prevention 1B 2.5</td>
</tr>
<tr>
<td>FSCI 356</td>
<td>Fire Management 1 2.5</td>
</tr>
<tr>
<td>FSCI 357</td>
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</tr>
<tr>
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<td>Advanced Fire Academy 9</td>
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<tr>
<td>FSCI 364</td>
<td>Fire Apparatus Driver/Operator 1A 2</td>
</tr>
<tr>
<td>FSCI 366</td>
<td>Fire Apparatus Driver/Operator 1B 2</td>
</tr>
<tr>
<td>FSCI 371</td>
<td>Fire Command 2A 2.5</td>
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<tr>
<td>FSCI 372</td>
<td>Fire Management 2B 2.5</td>
</tr>
<tr>
<td>FSCI 373</td>
<td>Fire Instructor 2A 2.5</td>
</tr>
<tr>
<td>FSCI 374</td>
<td>Fire Instructor 2B 2.5</td>
</tr>
<tr>
<td>EMS 350</td>
<td>First Responder with Healthcare Provider CPR 3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 30
To earn a Certificate of Achievement in CSU General Education, the student must complete the requirements detailed in the CSU-GE Pattern. Each course must be completed with a grade of C or better. Students who plan to transfer to CSU should consult with a counselor about proper selection of courses and General Education certification.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

Demonstrate proficiency in NATURAL SCIENCE by:
1. Explaining how the scientific method is used to solve problems.
2. Describing how scientific discoveries and theories affect human activities.

Demonstrate proficiency in SOCIAL AND BEHAVIORAL SCIENCE by:
1. Describing the method of inquiry used by the social and behavioral sciences.
2. Describing how societies and social subgroups have operated in various times and cultures.
3. Analyzing the ways that individuals act and have acted in response to their societies.

Demonstrate proficiency in the HUMANITIES by:
1. Demonstrating awareness of the various ways that culture and ethnicity affect individual experience and society as a whole.
2. Demonstrating the ability to make well considered aesthetic judgments.

Demonstrate proficiency in LANGUAGE AND RATIONALITY by:
1. Demonstrating awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.
2. Demonstrating critical thinking in the analysis and production of communication.
3. Demonstrating the ability to find, evaluate, and use information in a variety of formats.

Demonstrate proficiency in HEALTH EDUCATION by:
1. Describing the integration of the physiological and psychological human being.
3. Evaluating the impact of daily decisions on life and health.

The Associate of Arts in General Studies with Emphasis provides an opportunity for you to earn an Associate of Arts (AA) degree in a comprehensive area of study. This degree is intended for students who may not be planning to transfer to a university in the near future. The General Studies degree is intended to provide both breadth and depth of education. Breadth is achieved by completion of the 18-unit MJC-GE Pattern for the Associate's Degree. Depth is achieved when you complete an additional 18-unit Emphasis in one of four areas: Natural Sciences, Social and Behavioral Sciences, Humanities, or Language and Rationality. By completing this pattern of study, you will have a "well rounded" education in addition to lower-division course work in related disciplines which can be used as preparation for a field of study.
A.A. DEGREE: GENERAL STUDIES, EMPHASIS IN HUMANITIES

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:

1. Describe how the performing and visual arts, literature, languages and the social sciences have influenced societies in various times.
2. Analyze ways in which the performing and visual arts, literature, languages and the social sciences allow for individuals and social groups to form creative and critical responses to their societies and environments.
3. Demonstrate awareness of the various ways that the performing and visual arts, literature, languages and the social sciences provide creative and critical venues for expressing how culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.
4. Demonstrate the ability to interpret and analyze the performing and visual arts, literature, languages and the social sciences for meaning and to forge aesthetic, moral, social, political and historical judgments.
5. Demonstrate critical thinking in the analysis of artistic, literary, linguistic and academic knowledge production using both thematic and historical synthesis.

ABOUT THIS EMPHASIS
Courses in the humanities are those that study the cultural activities and artistic expressions of human beings. Students will develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creations and develop aesthetic understanding, and an ability to make value judgments.

1. Follow the Career and Technical Education Pathway for associate degree on page 111 of the 2017-2018 MJC Catalog. Satisfactory completion of this pathway will result in an associate degree from Modesto Junior College.
2. In fulfillment of the Career and Technical Education Pathway degree requirements, select and complete a General Studies emphasis from the following pages. Coursework completed in fulfillment of a General Education requirement cannot be reapplied toward a General Studies emphasis.
3. For this non-transfer emphasis, complete a minimum of 18 units from the list below. Of that 18 units, select two disciplines. Complete 6 units in each. Students may not double-count units with General Education courses.

REQUIRED COURSES - COMPLETE 18 UNITS

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANTHR 104</td>
<td>Linguistic Anthropology</td>
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<tr>
<td>ART 102</td>
<td>Intro to Computer Graphics</td>
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<td>ART 120</td>
<td>Basic Drawing 1</td>
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<td>ART 124</td>
<td>Color and 2-D Foundation Design</td>
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<td>Sculpture 1</td>
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<td>ART 160</td>
<td>Appreciation of Art</td>
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<td>ART 162</td>
<td>History of Renaissance Art</td>
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<td>ART 163</td>
<td>History of Modern Art</td>
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<td>ART 164</td>
<td>History of Art 1: Prehistoric to Gothic</td>
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<td>ART 165</td>
<td>History of Art 2: Renaissance to Contemporary</td>
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<td>ART 168</td>
<td>History of Photography</td>
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<td>ART 169</td>
<td>Survey of Asian Art</td>
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<td>ART 170</td>
<td>Basic Photography</td>
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<td>COMM 120</td>
<td>Oral Interpretation</td>
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<td>COMM 122</td>
<td>Introduction to Readers' Theatre</td>
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<td>COMM 123</td>
<td>Storytelling</td>
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<td>COMM 124</td>
<td>Advanced Readers' Theatre</td>
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<td>COMM 132</td>
<td>Introduction to Mass Communication</td>
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<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
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<tr>
<td>ENGL 102</td>
<td>Advanced Composition &amp; Introduction to Literature</td>
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<tr>
<td>ENGL 105</td>
<td>Creative Writing: Poetry</td>
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<tr>
<td>ENGL 106</td>
<td>Creative Writing: Short Fiction</td>
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<td>ENGL 111</td>
<td>Creative Writing: Creative Nonfiction</td>
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<td>ENGL 112</td>
<td>Introduction to the Novel and Short Story</td>
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<td>ENGL 114</td>
<td>Introduction to Poetry</td>
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<td>ENGL 131</td>
<td>Introduction to World Literature 1</td>
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<td>ENGL 132</td>
<td>Introduction to World Literature 2</td>
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<td>ENGL 135</td>
<td>Survey of American Literature to 1850</td>
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<td>ENGL 136</td>
<td>Survey of American Literature: 1850 to the Present</td>
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<td>ENGL 137</td>
<td>Survey of English Literature to the Late 18th Century</td>
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<td>ENGL 138</td>
<td>Survey of English Literature: Late Eighteenth Century to Present</td>
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<td>ENGL 151</td>
<td>Folklore</td>
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<td>ENGL 156</td>
<td>The Bible as Literature</td>
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<td>HIST 104</td>
<td>Western Civilizations to 1650</td>
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<td>HIST 105</td>
<td>Western Civilization Since 1650</td>
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<td>World Civilization from the 16th Century</td>
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<td>HUMAN 101</td>
<td>Introduction to the Humanities</td>
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<td>HUMAN 105</td>
<td>Early Humanistic Traditions</td>
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<td>HUMAN 106</td>
<td>Humanities in the Modern World</td>
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<td>HUMAN 110</td>
<td>East Meets West</td>
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<td>Introduction to Western Religions</td>
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<td>MUSG 111</td>
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<td>MUSG 121</td>
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<td>Music Fundamentals</td>
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<td>History of Philosophy: Modern</td>
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<td>PHIO 135</td>
<td>Environmental Ethics</td>
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<td>PHIO 140</td>
<td>Philosophy and Film</td>
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<td>SIGN 125</td>
<td>ASL: Beginning Communication With the Deaf</td>
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<tr>
<td>SIGN 126</td>
<td>ASL: Intermediate Communication With the Deaf</td>
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PROGRAMS

SOCSC 105 (NP) Women's Studies ..................................................3
SOCSC 154 (NP) Movies with a Message ........................................3
SPAN 51 (NP) Introductory Spanish 1 ...............................................3
SPAN 52 (NP) Introductory Spanish 2 ...............................................3
SPAN 101 (NP) Spanish 1 ..............................................................5
SPAN 102 (NP) Spanish 2 ..............................................................5
SPAN 103 (NP) Spanish 3 ..............................................................4
SPAN 104 (NP) Spanish 4 ..............................................................4
SPAN 109 (NP) Spanish for Spanish Speakers 1 ..............................5
SPAN 110 (NP) Spanish for Spanish Speakers 2 ..............................5
SPAN 112 (NP) Introduction to Chicano/a Literature .........................3
SPAN 173 (NP) Survey of Latin American Literature .......................3
THEIR 100 (NP) Introduction to Theatre Arts ..................................3
THEIR 114 (NP) Script Analysis .................................................... 3
THEIR 122 (NP) Introduction to Readers' Theatre..............................3
THEIR 123 (NP) Storytelling ..........................................................3
THEIR 124 (NP) Advanced Readers' Theatre ..................................3
THEIR 160 (NP) Fundamentals of Acting ..........................................3
THEIR 161 (NP) Intermediate Acting ................................................3
COMM 104 (NP) Argumentation ...................................................3
COMM 106 (NP) Group & Organizational Communication ................3
COMM 107 (NP) Introduction to Debate ..........................................3
COMM 110 (NP) Persuasion ..........................................................3
COMM 132 (NP) Introduction to Mass Communication ....................3
COMM 133 (NP) Mediated Communication ....................................3
CSCI 200 (NP) Technical Computer Literacy ....................................3
CSCI 201 (NP) General Computer Literacy ......................................3
CSCI 203 (NP) Symbolic Logic ......................................................3
CSCI 204 (NP) Discrete Structures for Computer Science ..................3
CSCI 213 (NP) Windows Server OS ..............................................3
CSCI 221 (NP) Programming With Visual Basic ..............................3
CSCI 230 (NP) Database Management Systems ...............................3
CSCI 253 (NP) Web Database Development ....................................3
CSCI 271 (NP) Problem Solving and Programming 1 .......................3
CSCI 272 (NP) Problem Solving and Programming 2 .......................3
CSCI 273 (NP) Assembly Language Programming ............................3
CSCI 274 (NP) Windows Programming With Visual Studio ...............3
ENG 103 (NP) Advanced Composition & Critical Thinking ...............3
LIBR 100 (NP) Research Concepts and Practice ................................3
MATH 89 (NP) Intermediate Algebra for Non-STEM Majors ..............4
MATH 90 (NP) Intermediate Algebra for STEM Majors ....................5
MATH 101 (NP) Mathematical Ideas and Applications ......................3
MATH 102 (NP) Structure of Mathematics 1 ....................................3
MATH 103 (NP) Structure of Mathematics 2 ....................................3
MATH 111 (NP) Applied College Algebra ........................................3
MATH 121 (NP) Pre-Calculus 1 .................................................... 5
MATH 122 (NP) Pre-Calculus 2 .................................................... 5
MATH 130 (NP) Finite Mathematics ...............................................3
MATH 134 (NP) Elementary Statistics ..........................................4
MATH 138 (NP) Calculus for Business & Social Sciences ..................3
MATH 161 (NP) Trigonometry .......................................................4
MATH 162 (NP) Precalculus ..........................................................4
MATH 171 (NP) Calculus: First Course ..........................................4
MATH 172 (NP) Calculus: Second Course ......................................4
MATH 173 (NP) Calculus: Third Course ........................................4
MATH 174 (NP) Introduction to Differential Equations & Linear Algebra 5
PHIL 103 (NP) Symbolic Logic ....................................................3
PHIL 105 (NP) Critical Reasoning and Analytic Writing ....................3
PHIL 107 (NP) Philosophy of Science ...........................................3
READ 184 (NP) Critical Reading ..................................................3
SOCIO 105 (NP) Introduction to Statistics for the Social & Behavioral Sciences 3
SUPR 106 (NP) Group & Organizational Communication ................3

A.A. DEGREE:
GENERAL STUDIES, EMPHASIS IN NATURAL SCIENCES

ABOUT THIS EMPHASIS
Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Students will develop an appreciation and understanding of the scientific method and an understanding of the relationships between science and other human activities.

ACTIVITY

A.A. DEGREE:
GENERAL STUDIES, EMPHASIS IN LANGUAGE & RATIONALITY

ABOUT THIS EMPHASIS
Courses in language and rationality are those that study English composition, communication, and analytical thinking. Students will develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication whatever symbol system the students use.

Follow the Career and Technical Education Pathway for associate degree on page 111 of the 2017-2018 MJC Catalog. Satisfactory completion of this pathway will result in an associate degree from Modesto Junior College.

In fulfillment of the Career and Technical Education pathway degree requirements, select and complete a General Studies emphasis from the following pages. Coursework completed in fulfillment of a General Education requirement cannot be reapplied toward a General Studies emphasis.

For this non-transfer emphasis, complete a minimum of 18 units from the list below. Of that 18 units, select two disciplines and complete 6 units in each discipline. Students may not double-count units with General Education courses.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.
2. Demonstrate critical thinking in the analysis and production of communication.
3. Demonstrate the ability to find, evaluate, and use information in a variety of formats.

REQUIRED COURSES - COMPLETE 18 UNITS

AEGC 225 (NP) Agriculture Computer Applications ..........................3
BUSAD 210 (NP) Business Communication ...................................3
COMM 100 (NP) Fundamentals of Public Speaking .........................3
COMM 102 (NP) Introduction to Human Communication ..................3

TOTAL UNITS IN EMPHASIS .................................................................. 18

G: GENERAL STUDIES

SIGN 127 (NP) ASL: Advanced Communication With the Deaf ...............3
MATH 101 (NP) Mathematical Ideas and Applications ..........................3
MATH 102 (NP) Structure of Mathematics 1 ....................................3
MATH 103 (NP) Structure of Mathematics 2 ....................................3
MATH 111 (NP) Applied College Algebra ........................................3
MATH 121 (NP) Pre-Calculus 1 .................................................... 5
MATH 122 (NP) Pre-Calculus 2 .................................................... 5
MATH 130 (NP) Finite Mathematics ...............................................3
MATH 134 (NP) Elementary Statistics ..........................................4
MATH 138 (NP) Calculus for Business & Social Sciences ..................3
MATH 161 (NP) Trigonometry .......................................................4
MATH 162 (NP) Precalculus ..........................................................4
MATH 171 (NP) Calculus: First Course ..........................................4
MATH 172 (NP) Calculus: Second Course ......................................4
MATH 173 (NP) Calculus: Third Course ........................................4
MATH 174 (NP) Introduction to Differential Equations & Linear Algebra 5
PHIL 103 (NP) Symbolic Logic ....................................................3
PHIL 105 (NP) Critical Reasoning and Analytic Writing ....................3
PHIL 107 (NP) Philosophy of Science ...........................................3
READ 184 (NP) Critical Reading ..................................................3
SOCIO 105 (NP) Introduction to Statistics for the Social & Behavioral Sciences 3
SUPR 106 (NP) Group & Organizational Communication ................3

TOTAL UNITS IN EMPHASIS .................................................................. 18
1. Follow the Career and Technical Education Pathway for associate degree on page 111 of the 2017-18 MCU Catalog. Satisfactory completion of this pathway will result in an associate degree from Modesto Junior College.

2. Coursework completed in fulfillment of a General Education requirement cannot be reapplied toward this General Studies emphasis.

3. For this non-transfer emphasis, complete a minimum of 18 units from the list below according to either Concentration A or B. Students may not double-count units with General Education courses.

- Concentration A: Of these 18 units, complete 6 units in each of two different disciplines or groups of disciplines* below.
- Concentration B: Of these 18 units, complete 12 units in one discipline or group of disciplines* below.

* The following disciplines may be grouped together for the purpose of meeting Concentration A or B: Allied Health Sciences Group: BIO 101 OR 111 OR 116, CHEM 143, CHEM 144, PSYCH 103, and any courses listed below in ANAT, AP, MICRO, or PHYSO.

Earth and Space Sciences Group: Any courses listed below in ASTRO, EASCI, GEOL, or METEO. Life Sciences Group: Any courses listed below in BIO, BOT, or ZOOL.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Apply the scientific method as a foundation for the natural sciences.
2. Describe evolution as it applies to life and/or the physical universe.
3. Describe the physical universe and/or its life forms and its natural phenomena.
4. Demonstrate the relationships between science and other human activities.

REQUIRED COURSES - COMPLETE 18 UNITS

For this non-transfer emphasis, complete a minimum of 18 units from the list below. Of that 18 units, select two disciplines. Complete 6 units in each.

ANAT 125 [NP] Human Anatomy ...................................... 4
ANSC 200 [NP] Introduction to Animal Science .................... 3
ANTHR 101 [NP] Biological Anthropology ........................... 4
ANTHR 105 [NP] Biological Anthropology Laboratory .......... 1
AP 50 [NP] Elementary Human Anatomy-Physiology ............ 3
AP 150 [NP] Integrative Anatomy and Physiology ................. 5
ASTRO 151 [NP] Introduction to Astrophysics Lab ................. 1
ASTRO 160 [NP] Introduction to Modern Astronomy ............ 3
BIO 50 [NP] Basic Biology .............................................. 3
BIO 101 [NP] Biological Principles .................................. 4
BIO 111 [NP] General Biology ........................................ 4
BIO 114 [NP] General Ecology ........................................ 4
BIO 115 [NP] Genetics, Evolution, and Society .................. 3
BIO 116 [NP] Biology: A Human Perspective ................. 4
BIO 140 [NP] Introduction to Marine Biology ...................... 4
BIO 145 [NP] Introduction to Freshwater Biology .............. 4
BOT 101 [NP] General Botany .......................................... 4
CHEM 101 [NP] General Chemistry 1 ......................... 5
CHEM 102 [NP] General Chemistry 2 .......................... 5
CHEM 112 [NP] Organic Chemistry 1 .......................... 5
CHEM 113 [NP] Organic Chemistry 2 ......................... 5
CHEM 122 [NP] Structure & React: Organic Chem 1 ........... 4
CHEM 142 [NP] Pre-General Chemistry ......................... 3
CHEM 143 [NP] Introductory College Chemistry ............... 4
CHEM 144 [NP] Fundamentals of Organic & Biochemistry .... 4
CHEM 150 [NP] Exploring Our Chemical Environment .......... 3
CHEM 164 [NP] Introductory Chemistry Laboratory ........... 2
EASCI 161 [NP] Earth Science ........................................ 4
EASCI 162 [NP] Introduction to Oceanography ................. 4
ELTEC 208 [NP] Fundamentals of Electricity and Electronics .... 3
ENSCI 108 [NP] Environmental Conservation .................... 3
ENVR 219 [NP] Introduction to Nutrition Science ............... 3
GEOG 111 [NP] Physical Geography, Lab ........................ 1
GEOG 160 [NP] Introduction to Geology ......................... 3
GEOG 161 [NP] Physical Geography ............................... 4
GEOG 165 [NP] Geography of California ......................... 3
GEOG 166 [NP] Historical Geography ............................. 4
METEO 161 [NP] Introduction to Meteorology ................. 4
MICRO 101 [NP] Microbiology ....................................... 4
MICRO 111 [NP] Plagues of Humankind ......................... 3
NR 200 [NP] Soils ...................................................... 4
PE 124 [NP] Introduction to Kinesiology ......................... 3
PHSCI 52 [NP] The Way Things Work ............................ 3
PHYS 101 [NP] General Physics: Mechanics .................... 4
PHYS 102 [NP] General Physics: Waves, Thermodynamics & Optics .... 4
PHYS 103 [NP] General Physics: Electricity, Magnetism & Modern Physics .... 4
PHYS 142 [NP] Mechanics, Heat & Waves ....................... 3
PHYS 143 [NP] Electricity, Magnetism, Optics, Atomic and Nuclear Structure .......... 4
PHYS 160 [NP] Descriptive Introduction to Physics ............ 3
PHYS 165 [NP] Introductory Physics ............................... 4
PHYS 180 [NP] Conceptual Physics: A Hands-on Approach .... 4
PHYSO 101 [NP] Introductory Human Physiology ............... 3
PHYSO 103 [NP] Introduction to Neuroscience .................. 3
PLSC 200 [NP] Introduction to Plant Science .................... 3
PLSC 230 [NP] Fruit Science ........................................ 3
PSYCH 103 [NP] Introduction to Neuroscience .................. 3
ZOOL 101 [NP] General Zoology .................................... 4

TOTAL UNITS IN EMPHASIS ........................................... 18

A.A. DEGREE:
GENERAL STUDIES, EMPHASIS IN SOCIAL & BEHAVIORAL SCIENCE

ABOUT THIS EMPHASIS

Courses in the social and behavioral sciences are those that focus on people as members of society. Courses will stimulate critical thinking about the ways people act and have acted in response to their societies and will promote appreciation of how societies and social subgroups operate.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 101) which include completion of the requirements below.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe and demonstrate the methodology and approach employed in the study of Behavioral and Social Sciences.
2. Critically examine local, national, and global issues as they pertain to the study of Behavioral and Social Sciences.
REQUIRED COURSES - COMPLETE 18 UNITS

*For this non-transfer emphasis, complete a minimum of 18 units from the list below. Of that 18 units, select two disciplines and complete 6 units in each discipline. Students may not double-count units with General Education courses.

ADJU 201 [NP] Introduction to Administration of Justice ..................................3
ADJU 202 [NP] Principles/Procedures of Justice System ................................3
ADJU 203 [NP] Concepts of Criminal Law ..................................................3
ADJU 217 [NP] Substance Abuse ..................................................................3
ADJU 235 [NP] Introduction to Corrections ..................................................3
AGEC 210 [NP] Elements of Agricultural Economics ..................................3
AGGE 146 [NP] Agriculture, Environment and Society ................................3
ANTHR 101 [NP] Biological Anthropology ...............................................3
ANTHR 102 [NP] Cultural Anthropology ....................................................3
ANTHR 104 [NP] Linguistic Anthropology ..................................................3
ANTHR 130 [NP] Archaeology and Cultural Prehistory ..............................3
ANTHR 140 [NP] Magic, Witchcraft, and Religion ......................................3
ANTHR 150 [NP] Native People of North America .....................................3
BUSAD 240 [NP] Principles of Management ..............................................3
CLDIV 103 [NP] Child Growth and Development .......................................3
CLDIV 109 [NP] Child-Family-Community ...............................................3
CLDIV 160 [NP] Introduction to Children with Special Needs ......................3
CLDIV 262 [NP] Diversity in Educational Settings .....................................3
COMM 103 [NP] Interpersonal Communication .........................................3
COMM 130 [NP] Intercultural Communication ...........................................3
ECON 101 [NP] Principles of Macroeconomics .........................................3
ECON 102 [NP] Principles of Microeconomics .........................................3
ECON 115 [NP] Economic History of the United States .............................3
ENGL 110 [NP] California Water ...............................................................3
FAMFL 131 [NP] Family Relationships .......................................................3
GEOG 102 [NP] Cultural Geography ........................................................3
GEOG 104 [NP] California Geography .......................................................3
GEOG 105 [NP] Economic Geography ........................................................3
GEOG 110 [NP] World Regional Geography ..............................................3
HE 112 [NP] Introduction to Public Health ..............................................3
HE 115 [NP] Drugs, Health, and Society .....................................................3
HIST 101 [NP] History of the United States to 1877 ....................................3
HIST 102 [NP] History of the United States Since 1865 ............................3
HIST 104 [NP] Western Civilization to 1650 ............................................3
HIST 105 [NP] Western Civilization Since 1650 .......................................3
HIST 106 [NP] World Civilization to the 16th Century ..............................3
HIST 107 [NP] World Civilization from the 16th Century .........................3
HIST 112 [NP] 20th Century America ........................................................3
HIST 113 [NP] Social and Cultural History of the U. S. Prior to the 20th Cent.3
HIST 115 [NP] Economic History of the United States .............................3
HIST 116 [NP] Women in American History ............................................3
HIST 119 [NP] Social and Cultural History of 20th Century America ........3
HIST 125 [NP] History of Mexico ...............................................................3
HIST 128 [NP] The American West ..........................................................3
HIST 129 [NP] History of California ..........................................................3
HIST 135 [NP] History of Latin America ....................................................3
HIST 154 [NP] African Americans Through the 19th Century ................3
HIST 155 [NP] African Americans in the 20th and 21st Centuries ...............3
HUMSR 101 [NP] Introduction to Human Services ..................................3
HUMSR 114 [NP] Death and Dying ..............................................................3
HUMSR 142 [NP] Introduction to Psychosocial Rehabilitation ......................3
HUMSR 143 [NP] Psychosocial Rehabilitation Practice ............................3
PHIL 130 [NP] Political Philosophy .............................................................3
POLSC 101 [NP] American Politics ..............................................................3
POLSC 110 [NP] International Relations ....................................................3
POLSC 111 [NP] War and Peace: From Lenin to Al Qaeda ............................3
POLSC 120 [NP] California Politics and Problems ....................................3
POLSC 130 [NP] Political Theory .................................................................3
POLSC 131 [NP] American Political Thought ............................................3

POLSC 131 [NP] Comparative Politics ......................................................3
POLSC 165 [NP] Political Science Research Methods ................................3
POLSC 180 [NP] Human Rights ..................................................................3
PSYCH 51 [NP] Psychology in Everyday Life .............................................3
PSYCH 101 [NP] General Psychology .........................................................3
PSYCH 104 [NP] Introduction to Social Psychology ..................................3
PSYCH 105 [NP] Abnormal Psychology .....................................................3
PSYCH 111 [NP] Psychology of Gender ....................................................3
SOCI 101 [NP] Introduction to Sociology ..................................................3
SOCI 102 [NP] Social Problems in the United States ...............................3
SOCI 125 [NP] Sociology of the Family .....................................................3
SOCI 150 [NP] Ethnicity and Culture in America .......................................3
SOCI 154 [NP] African-American Cultures and Communities ..................3
SOCI 156 [NP] Mexican Culture in the United States ..............................3
SOCSC 105 [NP] Women’s Studies ..........................................................3
SOCSC 110 [NP] Introduction to Elementary Education .............................3

TOTAL UNITS IN EMPHASIS ........................................................................ 18

GEOGRAPHY

PROGRAM

(209) 575-6129

A. A.-T DEGREE: GEOGRAPHY

Geography is the study of spatial aspects of the physical environment, human activities, and the nature of their interactions. Geography draws upon theories from both the physical and social sciences. As physical scientists, geographers study earth processes and the resulting features; climate, soils, vegetation, tectonics, landforms and resources. As social scientists, geographers examine human behaviors and the patterns humans create through economics, religion, language, urbanization, folk and popular culture, and ethnic identities which are reflected in the landscape. Geography utilizes a regional approach to examine the interrelationships between the physical environment, economy, culture, politics and history of specific locations, such as California, Europe or Asia.

The Associate in Arts in Geography for Transfer (AA-T in Geography) degree is intended for students who plan to complete a bachelor's degree in Geography at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER (AA-T IN GEOGRAPHY) DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.

   (A)
The Associate in Science in Geology for Transfer degree is intended for students who plan to complete a bachelor’s degree in Geology at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify the rock-forming minerals, ore minerals, igneous rocks, sedimentary rocks, and metamorphic rocks, utilizing the physical and chemical properties of each.
2. Analyze and interpret stratigraphic columns, geologic profiles, and geologic and topographic maps to determine the geological and structural history of a given region.
3. Analyze the geological hazards of a given region based on identification of the tectonic and erosional processes acting on the landscape.

The following is required for the Associate in Science in Geology for Transfer degree:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   
   (A) The California State University-General Education-Breadth pattern (CSU GE Breadth); OR the Interssegmental General Education Transfer Curriculum (IGETC) pattern.
   
   (B) A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0. All courses within the ADTs also require that students must earn a C or better or a “P” (Pass) in all courses required for the major or area of emphasis.

**REQUIRED CORE: COMPLETE 26 UNITS**

- GEOL 161 (NP) Physical Geology .......................................................... 4
- GEOL 166 (NP) Historical Geology ......................................................... 4
- CHEM 101 (NP) General Chemistry 1. ..................................................... 5
- CHEM 102 (NP) General Chemistry 2. ..................................................... 5
- MATH 171 (NP) Calculus: First Course .................................................... 4
- MATH 172 (NP) Calculus: Second Course .............................................. 4

**TOTAL UNITS IN A.S.-T MAJOR .......................................................... 26**

- Total Units That May Be Double-Counted ........................................... 7
- GENERAL EDUCATION (CSU-GE OR IGETC UNITS) .............................. 37-39
- Elective (CSU Transferable Units) ......................................................... 2-4

**TOTAL UNITS REQUIRED FOR THE A.S.-T DEGREE .................. 60**

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for the Associate in Science in Geology for Transfer degree.*
SKILLS RECOGNITION: GERONTOLOGY

Completion of the Gerontology program will provide the holder with the skills, knowledge, and education necessary to work with the elderly. It also provides training and growth opportunities for existing human service employees. In addition, this Skills Recognition Award in Gerontology will serve as another step in an educational and career ladder leading to a Human Services Skills Recognition Award, certificate and/or degree. All course work will be applicable as electives and/or meet the requirements for the Human Services degrees at MJC.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate an understanding of gerontology, family systems, and the psychology of aging as it relates to individual, family, and group counseling.
2. Exhibit effective, communication, clinical skills, body language, and written abilities with the elderly.
3. Demonstrate an understanding of theoretical philosophies, biology, life span, environmental or psychosocial stressors, and the relation to gerontological counseling.
4. Conduct a basic assessment, interview, intervention, case plan, individual counseling, and group session with the aged.

PROGRAM REQUIREMENTS

To earn a Skills Recognition Award in Gerontology, the student must complete the following coursework. Each course must be completed with a C or better.

REQUIRED COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 (NP)</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 104 (NP)</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 110 (NP)</td>
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</tr>
</tbody>
</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD................................. 9

A.A.-T DEGREE: HISTORY

The Associate in Arts in History for Transfer (A.A.-T in History) degree includes lower division coursework that is required for transfer and will provide students with the opportunity to learn a valuable skills in critical thinking and writing as they explore a variety of historical topics in world and western civilizations and American history. The A.A.-T in History includes courses that explore world and U.S. history, political institutions, and social and cultural influences.

The Associate in Arts in History for Transfer (A.A.-T in History) degree is intended for students who plan to complete a bachelor's degree in history at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon completion of this award, the student should be prepared to:

1. Describe and explain the role of politics, economics, and cultural developments on societies around the world and through time.
2. Critically analyze historical events in order to write an interpretation of a specific historical topic.
3. Engage in public discourse about current issues impacting our nation with the knowledge of how the past has shaped these issues.

The following is required for the Associate in Arts in History for Transfer (A.A.-T in History) degree:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better or a “P” (Pass).

*ADTs also require that students must earn a C or better or a "P" (Pass) in all courses required for the major or area of emphasis.

REQUIRED COURSES – COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 101 (NP)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102 (NP)</td>
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LIST A - SELECT 2 (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>HIST 106 (NP)</td>
<td>3 OR</td>
</tr>
<tr>
<td>HIST 104 (NP)</td>
<td>3 OR</td>
</tr>
<tr>
<td>HIST 107 (NP)</td>
<td>3 OR</td>
</tr>
<tr>
<td>HIST 105 (NP)</td>
<td>3 OR</td>
</tr>
</tbody>
</table>

LIST B - SELECT 1 COURSE FROM EACH AREA (6 UNITS) (INCLUDING COURSES
**PROGRAMS**

**H: HISTORY / HUMAN SERVICES**

**FROM LIST A IF NOT USED ABOVE**

<table>
<thead>
<tr>
<th>AREA 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 106 [NP] World Civilization to the 16th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 107 [NP] World Civilization from the 16th Century</td>
<td>3 OR</td>
</tr>
<tr>
<td>HIST 125 [NP] History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 145 [NP] History of Latin America</td>
<td>3 OR</td>
</tr>
<tr>
<td>HIST 116 [NP] Women in American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 154 [NP] African Americans through the 19th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 155 [NP] African Americans in the 20th and 21st Centuries</td>
<td>3 OR</td>
</tr>
<tr>
<td>ANTHR 150 [NP] People of North America</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AREA 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 112 [NP] 20th Century America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 113 [NP] Social and Cultural History of the US prior to the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 115 [NP] Economic History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 116 [NP] Women in American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 119 [NP] Social and Cultural History of 20th Century America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 125 [NP] History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 128 [NP] The American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 129 [NP] History of California</td>
<td>3</td>
</tr>
<tr>
<td>HIST 145 [NP] History of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 154 [NP] African Americans through the 19th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 155 [NP] African Americans in the 20th and 21st Centuries</td>
<td>3 OR</td>
</tr>
<tr>
<td>ANTHR 102 [NP] Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102 [NP] Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110 [NP] World Regional Geography</td>
<td></td>
</tr>
<tr>
<td>PHIL 101 [NP] Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 120 [NP] History of Philosophy: Ancient</td>
<td></td>
</tr>
<tr>
<td>PHIL 121 [NP] History of Philosophy: Modern</td>
<td>3</td>
</tr>
<tr>
<td>SOCSC 105 [NP] Women's Studies</td>
<td>3</td>
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</tbody>
</table>

**TOTAL UNITS IN THE A.A.-T MAJOR** .......................... 18

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED: ................................ 18

GENERAL EDUCATION (CSU-GE OR IGETC PATTERN UNITS) .................. 37-39

ELECTIVE (CSU TRANSFERABLE UNITS) ........................................ 21-23

**TOTAL UNITS REQUIRED FOR A.A.-T DEGREE** .............................. 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

**PROGRAMS OFFERED**

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

**REQUIRED COURSES - COMPLETE 17 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HUMSR 101</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 110</td>
<td>Intro to Interviewing, Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 114</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 144</td>
<td>Human Services Practicum</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 145ABD</td>
<td>Community Agency Practicum</td>
<td>1,2,4</td>
</tr>
<tr>
<td>HUMSR 116</td>
<td>Drugs and Alcohol in Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>Ethnicity and Culture in America</td>
<td>3 OR</td>
</tr>
<tr>
<td>SOCIO 156</td>
<td>Mexican Culture in the United States</td>
<td>3</td>
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</table>

**ELECTIVE COURSES - COMPLETE 3 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ANTHR 102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 103</td>
<td>Introduction to Human Services Careers</td>
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<tr>
<td>HUMSR 113</td>
<td>Co-Occurring Disorders</td>
<td>3</td>
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<tr>
<td>HUMSR 119</td>
<td>Intro Grp Ldshp/Grp Process</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 120</td>
<td>California Politics and Problems</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 51</td>
<td>Psychology in Everyday Life</td>
<td>3 OR</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 104</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 110</td>
<td>Human Sexualities</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 125</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** ................................................. 20

**CERTIFICATE OF ACHIEVEMENT: HUMAN SERVICES**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate an understanding of the Human Services, delivery systems, and application of the code of ethics as it relates to the Human Service profession.
2. Exhibit effective, communication, body language, and written abilities.
3. Demonstrate an understanding of theoretical orientations, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.
4. Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.
5. Conduct an elementary assessment, interview, intervention, referral, individual counseling, and group session.

**PROGRAMS**

**H: HISTORY / HUMAN SERVICES**
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - COMPLETE 27 UNITS**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HUMSR 103</td>
<td>Introduction to Human Services Careers</td>
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<tr>
<td>GUIDE 110</td>
<td>Introduction to College</td>
<td>0.5</td>
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<tr>
<td>HUMSR 101</td>
<td>Introduction to Human Services</td>
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<td>HUMSR 110</td>
<td>Intro to Interviewing, Counseling</td>
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<tr>
<td>SOCIO 102</td>
<td>Social Problems in the United States</td>
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<td>HUMSR 116</td>
<td>Drugs and Alcohol in Society</td>
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<tr>
<td>SOCIO 150</td>
<td>Ethnicity and Culture in America</td>
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<td>SOCIO 156</td>
<td>Mexican Culture in the United States</td>
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<td>SOCIO 125</td>
<td>Sociology of the Family</td>
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<tr>
<td>HUMSR 144</td>
<td>Human Services Practicum</td>
<td>1</td>
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<tr>
<td>PSYCH 130</td>
<td>Personal Adjustment</td>
<td>3 OR</td>
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<tr>
<td>PSYCH 141</td>
<td>Human Lifespan Development</td>
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</table>

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD** 27

**ELECTIVE COURSES - COMPLETE 9 UNITS**

**ELECTIVE COURSES GROUP 1 - TAKE ONE COURSE FROM THE FOLLOWING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGL 116</td>
<td>Introduction to Drama</td>
<td>3</td>
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<tr>
<td>ENGL 121</td>
<td>Introduction to World Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 132</td>
<td>Introduction to World Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 135</td>
<td>Survey of American Literature to 1850</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 136</td>
<td>Survey of American Literature: 1850 to the Present</td>
<td>3</td>
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<tr>
<td>ENGL 137</td>
<td>Survey of English Literature to the Late 18th Century</td>
<td>3</td>
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<tr>
<td>ENGL 138</td>
<td>Survey of English Literature: Late 18th Century To Present</td>
<td>3</td>
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<tr>
<td>FREN 101</td>
<td>French 1</td>
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<tr>
<td>GERM 101</td>
<td>German 1</td>
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<td>ITAL 101</td>
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<tr>
<td>SPAN 101</td>
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**ELECTIVE COURSES GROUP 2 - TAKE ONE COURSE FROM THE FOLLOWING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTHR 102</td>
<td>Cultural Anthropology</td>
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<tr>
<td>HUMAN 101</td>
<td>Introduction to the Humanities</td>
<td>3</td>
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<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
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<tr>
<td>HUMAN 130</td>
<td>Introduction to Western Religions</td>
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<td>HUMAN 140</td>
<td>Introduction to World Mythology</td>
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<td>PHILO 111</td>
<td>Ethics: Theory and Application</td>
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<tr>
<td>PHILO 120</td>
<td>History of Philosophy: Ancient</td>
<td>3</td>
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<tr>
<td>PHILO 121</td>
<td>History of Philosophy: Modern</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 123</td>
<td>Twentieth Century Philosophy</td>
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**ELECTIVE COURSES GROUP 3 - TAKE ONE COURSE FROM THE FOLLOWING**

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<tr>
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<tbody>
<tr>
<td>ART 164</td>
<td>History of Art 1: Prehistoric</td>
<td>3</td>
</tr>
<tr>
<td>ART 165</td>
<td>History of Art 2: Renaissance to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>ART 169</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>COMM 123</td>
<td>Storytelling</td>
<td>3</td>
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<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104</td>
<td>Western Civilization to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Western Civilization Since 1650</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 102</td>
<td>Introduction to World Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 121</td>
<td>History of Western Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 122</td>
<td>History of Western Music</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** 18 – 20

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe how cultural beliefs, values and practices have influenced societies in various times.
2. Analyze the ways that individuals and various cultural groups act in response to their societies and environment.
3. Demonstrate awareness of the various ways that culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.
4. Demonstrate the ability to interpret and analyze works of art for meaning and to forge aesthetic judgments.
5. Demonstrate critical thinking in the analysis of cultural production using both thematic and historical synthesis.

**PROGRAM REQUIREMENTS**

To earn an Associate in Arts degree with this emphasis, the student must complete the requirements detailed in the University Preparation Pathway in the MJC Catalog which include completion of the requirements below. See advisor for selection of courses.

**REQUIRED COURSES - COMPLETE 9 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMAN 105</td>
<td>Early Humanistic Traditions</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 106</td>
<td>Humanities in the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 101</td>
<td>Introduction to the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 130</td>
<td>Introduction to Western Religions</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 140</td>
<td>Introduction to World Mythology</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 196</td>
<td>Humanities Special Topics: Social Justice</td>
<td>3 OR</td>
</tr>
<tr>
<td>HUMAN 197</td>
<td>Humanities Special Topics: Nature and Civilization</td>
<td>3 OR</td>
</tr>
<tr>
<td>HUMAN 198</td>
<td>Humanities Special Topics: Place and Identity</td>
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</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE 9 UNITS**

**ELECTIVE COURSES GROUP 1 - TAKE ONE COURSE FROM THE FOLLOWING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 116</td>
<td>Introduction to Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 121</td>
<td>Introduction to World Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 132</td>
<td>Introduction to World Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 135</td>
<td>Survey of American Literature to 1850</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 136</td>
<td>Survey of American Literature: 1850 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 137</td>
<td>Survey of English Literature to the Late 18th Century</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 138</td>
<td>Survey of English Literature: Late 18th Century To Present</td>
<td>3</td>
</tr>
<tr>
<td>FREN 101</td>
<td>French 1</td>
<td>5</td>
</tr>
<tr>
<td>GERM 101</td>
<td>German 1</td>
<td>5</td>
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<tr>
<td>ITAL 101</td>
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<tr>
<td>SPAN 101</td>
<td>Spanish 1</td>
<td>5</td>
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</table>

**ELECTIVE COURSES GROUP 2 - TAKE ONE COURSE FROM THE FOLLOWING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTHR 102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 101</td>
<td>Introduction to the Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 110</td>
<td>East Meets West</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 130</td>
<td>Introduction to Western Religions</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN 140</td>
<td>Introduction to World Mythology</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 111</td>
<td>Ethics: Theory and Application</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 120</td>
<td>History of Philosophy: Ancient</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 121</td>
<td>History of Philosophy: Modern</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 123</td>
<td>Twentieth Century Philosophy</td>
<td>3</td>
</tr>
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</table>

**ELECTIVE COURSES GROUP 3 - TAKE ONE COURSE FROM THE FOLLOWING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 164</td>
<td>History of Art 1: Prehistoric</td>
<td>3</td>
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<tr>
<td>ART 165</td>
<td>History of Art 2: Renaissance to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>ART 169</td>
<td>Survey of Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>COMM 123</td>
<td>Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
<td>3</td>
</tr>
<tr>
<td>HIST 104</td>
<td>Western Civilization to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HIST 105</td>
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<td>History of Western Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 122</td>
<td>History of Western Music</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** 18 – 20
International Business

PROGRAM
(209) 575-6129

CERTIFICATE OF ACHIEVEMENT:
INTERNATIONAL BUSINESS

The International Business Certificate of Achievement is designed for students seeking an entrepreneurial or organizational career in global commerce. It may be obtained as an individual certificate or incorporated into other appropriate majors. Courses are designed to provide an essential understanding of both domestic and international business practices. Economic and cultural and ethical considerations are addressed in relation to business of all sizes and types.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Describe economic, cultural, and ethical differences in conducting business.
2. Gain employment in an organization or pursue entrepreneurial aspirations in global commerce.
3. Explain domestic and international business practices.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement in International Business, the student must complete the coursework as indicated below. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 17 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 208</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 209</td>
<td>Import/Export Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>Principles of Management</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3 OR</td>
</tr>
<tr>
<td>CSCI 201</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.................... 17

Language Studies

PROGRAM
(209) 575-6159

A.A. DEGREE: LANGUAGE STUDIES

This A.A. is designed as a University Preparation, Emphasis in Language Studies. The University Preparation degree, distinctive of the University Preparation “pathway,” is designed to prepare you for transfer to a California State University (CSU) or University of California (UC) campus. While completion of this program does not guarantee admission to a specific college or university, it allows you to complete preparatory courses that may apply toward the area of study in which you plan to major at your targeted transfer university, and to complete general education requirements required by CSU and UC for bachelor’s (baccalaureate) degree. It entails an interdisciplinary approach to learning that will allow you to simultaneously meet your unique transfer goals and fulfill lower division requirements for bachelor’s degree at many CSU or UC institutions. You will do this by completing a rigorous general education experience with either the CSU-GE or IGETC general education patterns, in addition to completing an emphasis in a particular field or program. How does it work? Each emphasis has been crafted to help you prepare for upper-division coursework in a baccalaureate major at a four-year university. By fulfilling the requirements of the MJC emphasis, you will also be completing some or all lower-division preparation for baccalaureate major at the university. ASSIST (www.assist.org) is a statewide database of recorded transfer agreements between community colleges and universities. You are advised to use ASSIST in selecting courses from the emphasis to ensure that the coursework applies to your baccalaureate major. University Preparation with Emphasis Prepare for transfer with some majors at MJC. Not every program at MJC offers a degree designed for transfer-oriented students. However, many programs do offer AA or AS majors which function like the emphasis for transfer-oriented students. Those majors are included on the following pages to help you make the right decision when determining the best transfer-oriented path of study.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Converse in at least two languages.
2. Communicate in writing in at least two languages.
3. Read critically, interpret analytically, and write coherently in at least two languages.
4. Understand and demonstrate appreciation of cultural differences.

EMPHASIS REQUIREMENTS

To earn an Associate Degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 103</td>
<td>Advanced Composition and Critical Thinking</td>
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</table>

COMPLETE 14 UNITS IN ONE OR TWO LANGUAGES FROM THE FOLLOWING:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 101</td>
<td>French 1</td>
<td>5</td>
</tr>
<tr>
<td>FREN 102</td>
<td>French 2</td>
<td>5</td>
</tr>
<tr>
<td>GERM 101</td>
<td>German 1</td>
<td>5</td>
</tr>
<tr>
<td>GERM 102</td>
<td>German 2</td>
<td>5</td>
</tr>
<tr>
<td>ITAL 101</td>
<td>Italian 1</td>
<td>5</td>
</tr>
<tr>
<td>SIGN 125</td>
<td>ASL: Beginning Communication With the Deaf</td>
<td>3</td>
</tr>
<tr>
<td>SIGN 126</td>
<td>ASL Intermediate Communication With the Deaf</td>
<td>3</td>
</tr>
</tbody>
</table>
The Logistics and Supply Chain Management program is designed to prepare students for entry level jobs in warehouse operations, inventory control, distribution center operations, transportation operations, production operations, procurement or customer service. Successful students will receive a vocational education that will provide the foundation for jobs such as warehouse clerk, distribution clerk, inventory clerk, logistics clerk, purchasing clerk, production scheduler or customer representative.

A.S. DEGREE:
LOGISTICS AND SUPPLY CHAIN MANAGEMENT

The A.S. in Logistics and Supply Chain Management offers students a comprehensive general logistics and supply chain foundation for entry level professional jobs in warehouse operations, distribution center operations, inventory control, transportation operations, purchasing, customer service or import/export operations.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:

1. Describe key logistics and supply chain functions and processes.
2. Apply essential logistics and supply chain concepts.
3. Demonstrate knowledge and skills to work successfully in an entry level professional job in the logistics and supply chain industry.
4. Think critically across supply chain functional areas to solve operations problems.
5. Use key supply chain information systems and apply technology to analyze supply chain problems.
6. Apply effective team working skills.

PROGRAM REQUIREMENTS

To earn an A.S. degree in Logistics and Supply Chain Management, the student must complete the requirements detailed in the Career Technical Education Pathway or University Preparation Pathway which include completion of all required courses and three of the elective courses.

REQUIRED COURSES: COMPLETE 22 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 256</td>
<td>Introduction to Word Processing</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 259</td>
<td>Introduction to Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 261</td>
<td>Introduction to Databases</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 262</td>
<td>Introduction to Business Presentation Software</td>
<td>1</td>
</tr>
<tr>
<td>LOGST 201</td>
<td>Operations Management and Lean Principles</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 202</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 203</td>
<td>Introduction to Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 205</td>
<td>Introduction to Warehouse Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 206</td>
<td>Introduction to Purchasing and Contracting</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 207</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES: COMPLETE THREE COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 202</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 209</td>
<td>Import/Export Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 2990</td>
<td>Logistics Internship</td>
<td>4</td>
</tr>
<tr>
<td>OFADM 313</td>
<td>Office Skills</td>
<td>3</td>
</tr>
<tr>
<td>SUPR 351</td>
<td>Elements of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR .................................................. 31 – 34

CERTIFICATE OF ACHIEVEMENT:
LOGISTICS AND SUPPLY CHAIN MANAGEMENT

The 2-semester advanced certificate program is designed to provide students a comprehensive general logistics and supply chain foundation for entry level professional jobs in warehouse operations, distribution center operations, inventory control, transportation operations, purchasing, and customer service or import/export operations.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to:

1. Describe key logistics and supply chain functions and processes.
2. Apply essential logistics and supply chain concepts.
3. Demonstrate knowledge and skills to work successfully in an entry level professional job in the logistics and supply chain industry.
4. Think critically across supply chain functional areas to solve operations problems.
5. Use key supply chain information systems and apply technology to analyze supply chain problems.
6. Apply effective team working skills.

**PROGRAM REQUIREMENTS**

To earn a Certificate of Achievement in Logistics and Supply Chain Management, the student must complete all required courses plus two of the elective courses.

**REQUIRED COURSES: COMPLETE 22 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 256</td>
<td>Introduction to Word Processing</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 259</td>
<td>Introduction to Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 261</td>
<td>Introduction to Database</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 262</td>
<td>Introduction to Business Presentation Software</td>
<td>1</td>
</tr>
<tr>
<td>LOGST 201</td>
<td>Operations Management and Lean Principles</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 202</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 203</td>
<td>Introduction to Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 205</td>
<td>Introduction to Warehouse Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 206</td>
<td>Introduction to Purchasing and Contracting</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 207</td>
<td>Introduction to Customer Service</td>
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**ELECTIVE COURSES: COMPLETE TWO COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 202</td>
<td>Managerial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUSAD 208</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 209</td>
<td>Import/Export Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 299D</td>
<td>Logistics Internship</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 313</td>
<td>Office Skills</td>
<td>3</td>
</tr>
<tr>
<td>SUPR 351</td>
<td>Elements of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD: 28 – 30**

**SKILLS RECOGNITION: LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

The one-semester skills recognition is designed to provide students a basic logistics and supply chain management foundation for entry level professional jobs in warehousing, distribution center operations, inventory control, transportation operations, purchasing, customer service or import/export operations.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe key logistics and supply chain functions and processes.
2. Apply essential logistics and supply chain concepts.
3. Demonstrate essential knowledge and skills to work successfully in an entry level professional job in the logistics and supply chain industry.
4. Apply fundamental team working skills.

**PROGRAM REQUIREMENTS**

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a "C" or better.

**REQUIRED COURSES - COMPLETE THREE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOGST 200</td>
<td>Introduction to Logistics</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 201</td>
<td>Operations Management and Lean Principles</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 202</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE TWO COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 208</td>
<td>Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 209</td>
<td>Import/Export Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 203</td>
<td>Introduction to Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 205</td>
<td>Introduction to Warehouse Management</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 206</td>
<td>Introduction to Purchasing and Contracting</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 207</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD: 15**

**LOGISTICS ASSOCIATE**

The 16-week Logistics Associate Skills Recognition Award is designed to train students in logistics and supply chain operations for entry level associate positions in warehousing, distribution, transportation or production. The program consists of a comprehensive behind-the-wheel forklift driver training as well as a rigorous APICS coursework in logistics and supply chain. Students will have the opportunity to obtain APICS’ internationally recognized Global Logistics Associate (GLA) certification after successful completion of a comprehensive exam.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Drive/operate various materials handling equipment safely.
2. Apply basic logistics and supply chain management concepts.
3. Demonstrate compliance with current OSHA safety requirements.
4. Demonstrate necessary skills to obtain entry level logistics associate position.

**PROGRAM REQUIREMENTS**

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a "C" or better.

**REQUIRED COURSES - COMPLETE 7 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOGST 300</td>
<td>Global Logistics Associate Training</td>
<td>3</td>
</tr>
<tr>
<td>LOGST 301</td>
<td>Lift Truck Operations and Safety Training</td>
<td>2</td>
</tr>
<tr>
<td>LOGST 299B</td>
<td>Logistics Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD: 7**
The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.

A.S. DEGREE: MACHINE TOOL TECHNOLOGY

The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current machine shop safety and environmental regulations.
2. Perform lathe, mill, and CNC machining operations in accordance with industry recognized standards.

To earn a Certificate of Achievement Award, student must complete the 6 required units. Each course must be completed with a C or better.

REQUIRED COURSES – COMPLETE 25 UNITS

MACH 211  
MACH 212  
MACH 213  
WELD 200  
MACH 219  
MACH 220  
MACH 222  
MACH 357  

COMPLETE 2 UNITS FROM THE FOLLOWING:

MACH 395B  
MACH 218  

ELECTIVE COURSES – COMPLETE 3 UNITS

WELD 204  
WELD 206  

TOTAL UNITS IN A.S. MAJOR .................................................. 30

CERTIFICATE OF ACHIEVEMENT: MACHINE TOOL TECHNOLOGY 1

The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current machine shop safety and environmental regulations.
2. Perform lathe, mill, and CNC machining operations in accordance with industry recognized standards.

To earn a Certificate of Achievement Award, student must complete the 16 required units. Each course must be completed with a C or better.

REQUIRED COURSES – COMPLETE 15 -17 UNITS

MACH 211 E  
MACH 212 E  
MACH 213  
WELD 200  
MACH 395AB  

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .................. 15 -17

SKILLS RECOGNITION: CNC OPERATOR

The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current CNC machining safety and environmental regulations.
2. Perform CNC machining operations in accordance with industry recognized standards.

To earn a Skills Recognition Award, student must complete the 6 required units. Each course must be completed with a C or better.

REQUIRED COURSES

MACH 219  
MACH 222  
MACH 223  

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ............................ 7
SKILLS RECOGNITION: CNC PROGRAMMER

The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction in the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Manually format and produce a word address format code that will operate a vertical machining center to center spot, drill, bore, tap, and countersink a combination of ten holes within one hour.
2. Produce word address format code that will operate a vertical machining center to produce a part of moderate complexity within one hour.
3. Manually input and properly format a word address format program that will produce a part on a CNC lathe that will have three turned diameters, at least one chamfered and one radiused edge within one hour.

PROGRAM REQUIREMENTS

To earn a Skills Recognition Award, the student must complete the coursework below. Each course must be completed with a C or better.

REQUIRED COURSES – COMPLETE 8 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MACH 218</td>
<td>Introduction to CNC Lathe Programming</td>
<td>2</td>
</tr>
<tr>
<td>MACH 219</td>
<td>Introduction to CNC Mill Programming</td>
<td>1</td>
</tr>
<tr>
<td>MACH 220</td>
<td>Machine Tool Programming</td>
<td>2</td>
</tr>
<tr>
<td>MACH 222</td>
<td>CNC Machine Operations</td>
<td>2</td>
</tr>
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ELECTIVE COURSES – COMPLETE 2 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MACH 311</td>
<td>CNC Programming with Macros</td>
<td>1</td>
</tr>
<tr>
<td>MACH 312</td>
<td>4 Axis Mill Programming and Operation</td>
<td>1</td>
</tr>
<tr>
<td>MACH 315</td>
<td>3D Part Programming for CNC</td>
<td>1</td>
</tr>
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</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ........................................... 10

SKILLS RECOGNITION: MAINTENANCE MACHINIST 1

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current machine shop safety and environmental regulations.
2. Perform manual machine shop operations in accordance with industry recognized and accepted practices.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, student must complete the following requirements.

REQUIRED COMPETENCIES FOR CERTIFICATE

- MATH 19 or 20 (NP) Pre-algebra (C or better) ........................................... 4 or 5 OR Eligibility for MATH 29 or MATH 30 by MJC assessment process

REQUIRED COURSES – COMPLETE 16 UNITS

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<thead>
<tr>
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<th>Course Name</th>
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<tbody>
<tr>
<td>MACH 301</td>
<td>Machine Shop 1</td>
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<tr>
<td>MACH 302</td>
<td>Machine Shop 2</td>
<td>3</td>
</tr>
<tr>
<td>MACH 303</td>
<td>Machine Shop 3</td>
<td>3</td>
</tr>
<tr>
<td>WELD 200</td>
<td>Arc &amp; Gas Welding</td>
<td>3</td>
</tr>
<tr>
<td>MACH 357</td>
<td>Machine Trades Print Reading</td>
<td>2</td>
</tr>
<tr>
<td>MACH 395AB</td>
<td>Advanced Mach Tool Technology Lab</td>
<td>1-2</td>
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</table>

ELECTIVE COURSES – COMPLETE 5 UNITS

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<th>Course Code</th>
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<tbody>
<tr>
<td>WELD 204</td>
<td>Gas Metal Arc Welding (G.M.A.W)</td>
<td>3</td>
</tr>
<tr>
<td>WELD 206</td>
<td>Gas Tungsten Arc Welding (G.T.A.W.)</td>
<td>3</td>
</tr>
<tr>
<td>ELTEC 320</td>
<td>Electrical Safety</td>
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<tr>
<td>ELTEC 265</td>
<td>Troubleshooting Techniques</td>
<td>1</td>
</tr>
<tr>
<td>ELTEC 300</td>
<td>Survey of Applied Technologies</td>
<td>3</td>
</tr>
<tr>
<td>AGM 214</td>
<td>Equipment Service and Safety</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ................................ 21

Maintenance Machinist

PROGRAM (209) 575-6332

CERTIFICATE OF ACHIEVEMENT: MAINTENANCE MACHINIST 2

The Machine Tool Technology program is designed to provide training in the operation of traditional manual as well as computer operated machine tools used to produce the mechanical components used in all industrial applications. Students will receive instruction in the use of lathes, milling machines, precision grinders as well as the theory and practice of precision dimensional measurement.
A.S. PROGRAMS

M: MARKETING / MATHEMATICS

MARKETING

The Marketing program is designed for those students interested in activities relating to the presentation, purchase, and distribution of goods and services in profit and nonprofit organizations. Students will learn the central role that marketing plays in organizations of every size and type, public and private.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Recognize and analyze ethical issues as they apply to the marketing environment.
2. Apply communication strategies for various audiences and contexts.
3. Apply fundamental sales and marketing techniques.

To earn an Associate in Science degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework. Degrees are awarded in Mathematics at various campuses in the University of California system. However, offers the appropriate preparation for students who plan to complete a bachelor's degree in Mathematics or a related field of study offered at various campuses in the California State University system. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. The Associate in Science in Mathematics for Transfer degree also offers the appropriate preparation for students who plan to complete a bachelor's degree in Mathematics at various campuses in the University of California system. However, students completing this degree are not guaranteed admission to the UC system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

The following is required for the AST Degree in Mathematics for Transfer:
1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The California State University-General Education-Breadth pattern (CSU GE Breadth), OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
   (B) A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
2. Obtaining a minimum grade point average of 2.0.

All courses within the ADIs also require that students must earn a C or better or a "P" (Pass) in all courses required for the major or area of emphasis.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Successfully complete upper division coursework in mathematics.
2. Master the techniques of integration and differentiation.
3. Use these techniques to model real-world applications.

To earn an Associate in Science for Transfer degree in this major, the student must complete the requirements detailed in the Transfer Model Curriculum pathway.

REQUISITE COURSES - COMPLETE 12 UNITS:

MATH 171 [1] Calculus: First Course ................................................. 4
MATH 172 [2] Calculus: Second Course ........................................... 4
MATH 173 [3] Calculus: Third Course .............................................. 4

SELECT 6 UNITS MINIMUM FROM THE LISTS BELOW WITH AT LEAST 3 UNITS FROM LIST A:

LIST A:

MATH 174 [4] Introduction to Differential Equations & Linear Algebra ............. 5
LIST B: SELECT ONE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>CSII 271</td>
<td>Problem Solving and Programming I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 134</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S.-T MAJOR: 20-21

TOTAL UNITS THAT MAY BE DOUBLE COUNTED: 3-7

GENERAL EDUCATION (CSU-GE OR IGETC) UNITS: 37-39

ELECTIVES (CSU TRANSFERABLE UNITS): 3-9

TOTAL UNITS REQUIRED FOR A.S.-T DEGREE: 60

* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities Requirement is not required for the Associate in Science in Mathematics for Transfer Degree.

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Medical Assisting

PROGRAM

(209) 575-6362

The Modesto Junior College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs
25400 US Highway 19 North, Suite 158
Clearwater, FL 33763
(727) 210-2350

This program prepares students to take the national certification exam offered by the American Association of Medical Assistant (AAMA) to become a Certified Medical Assistant (CMA). Medical assisting students at MJC receive transferable college credit for coursework. Many of the program graduates further their education by obtaining an A.S. Degree in Medical Assisting and/or Nursing.

The estimated program cost of $2,800 includes a $46/unit enrollment fee, a materials fee, various student fees, as well as uniform, books, certification exam, and clinical clearance process. Program cost at Modesto Junior College is very competitive with the cost of medical assisting programs offered by local trade schools. For information on clearance process. Program cost at Modesto Junior College is very competitive with the cost of medical assisting programs offered by local trade schools. For information on scholarships, contact Shirley Buzbee, Medical Assisting Program Director, 575-6377.

Applications are available on the Allied Health website www.mjc.edu/alliedhealth and search Medical Assisting Programs. For academic advising, contact Shirley Buzbee, Medical Assisting Program Director, 575-6377.

ELIGIBILITY AND PREPARATION FOR THE MEDICAL ASSISTING PROGRAM

- Admission to Modesto Junior College
- High school graduation or equivalent (GED or college degree)
  If you have transcripts on file verifying a college degree, you do not need to have your high school transcripts on file.
- Transcripts on File in MJC Enrollment Services

All transcripts (high school or equivalent and other colleges) must be on file in MJC Enrollment Services, Student Services Building, 102, (209) 575-6853 prior to the program application deadline. Enrollment Services will accept hand-carried transcripts that are in a sealed envelope with a school seal.

RECOMMENDED COMPETENCIES (FOR CERTIFICATE OF ACHIEVEMENT)

Complete English, math and reading assessment requirements by the program application deadline. The following competencies are recommended for success in the Medical Assisting Program.

WRITING COMPETENCY

ENGL 49 (NP) Basic English Skills (C or better) .................................................. 5 OR
Eligibility for ENGL 50 on assessment test

MATH COMPETENCY

MATH 19 or 20 (NP) Pre-algebra (C or better) .................................................. 4 OR
Eligibility for MATH 29 or MATH 30 by MJC assessment process

READING COMPETENCY

READ 184 (NP) Critical Reading (C or better) .................................................. 3 OR
Reading competency (85) on Accuplacer OR completion of a college degree from a regionally accredited college or university.

PROGRAM PREREQUISITES

In addition to the Medical Assisting courses taken during the program, there are four required courses that must be completed in order to complete the Certification or Associate in Science degree in Medical Assisting. In order to be accepted into the Medical Assisting Program you must have completed at least three of the four required courses listed below with a grade of C or better:

MEDICAL ASSISTING REQUIRED COURSES

AP 50 (NP) Elementary Human Anatomy-Physiology .................................. 3
MDAST 321 (NP) Medical Terminology .................................................. 3

CHOOSE ONE PSYCH COURSE FROM THE LIST BELOW:

PSYCH 51 (NP) Psychology in Everyday Life ............................................. 3
PSYCH 101 (NP) General Psychology .................................................. 3

CHOOSE ONE COMM COURSE FROM THE LIST BELOW:

COMM 100 (NP) Fundamentals of Public Speaking ..................................... 3
COMM 102 (NP) Introduction to Human Communication ............................ 3
COMM 130 (NP) Intercultural Communication ........................................... 3

If the required coursework is in progress at time of application, you may be considered for acceptance, on a space available basis, at time of successful course completion.

PROGRAM APPLICATION

Applications are available on the Allied Health website www.mjc.edu/alliedhealth

February 1 - August 15

Applications will continue to be accepted until the spring start program is full or October 15

SELECTION PROCESS FOR THE PROGRAM

Applicants who have completed all four of the required courses with a grade of C or better will be accepted first. Applicants who have completed three of the four required courses with a grade of C or better will be accepted next. If there are more qualified applicants than space available, a random selection process will be used.

Applicants who have required coursework in progress at time of application will be considered for acceptance, on a space available basis, once the in-progress coursework has been completed with a grade of C or better on transcript.
**PROGRAMS**

**M: MEDICAL ASSISTING**

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**ADDITIONAL REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY**

Accepted applicants will receive information with instructions for completing the health clearance, background check, drug screen, and BLS certification.

**HEALTH CLEARANCE**

- A medical history and physical examination completed by a physician, physician's assistant, or nurse practitioner within 3 months prior to program start date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.
- Documentation of required immunizations.
- A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

**BACKGROUND CHECK**

Practicum sites will require students to provide a background check Certificate of Verification before they will be allowed to participate in the practicum portion of the program.

**DRUG SCREEN**

All students participating in the practicum experience will be required by the practicum sites to pass a drug screen.

**BLS CERTIFICATION**

BLS certification must be from the American Heart Association; for the Healthcare Provider (infant, child and adult); eligible for recertification; and current throughout the program.

**SCHOLASTIC REQUIREMENTS**

In order to be eligible for the National Certification Examination, all program requirements must be completed with a grade of C or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to be eligible to take the AAMA Certification Exam.

**POLICY FOR DENIAL OF CERTIFICATION**

Beginning with the January 2001 administration of the Certification Examination, felons are no longer eligible for the Certification Examination unless the American Association of Medical Assistants (AAMA) Certifying Board grants a waiver based on one or more of the mitigating circumstances listed in the Disciplinary Standards. Any student considering a career in medical assisting, who has a criminal record, is advised to contact the AAMA for advisement prior to entering the Medical Assisting Program.

American Association of Medical Assistants
20 N. Wacker Drive, Suite 1575
Chicago, IL 60606-2903
(800) 228-2262
www.aama-ntl.org

**PROGRAM ADVISORY**

* Students are strongly advised to complete the required curriculum listed under Required Courses (Non Medical Assisting) prior to entering the Medical Assisting program. These courses must be completed by the second semester of the program with a grade of C or better in order to complete the Medical Assisting program and be eligible to take the CMA exam.

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**A.S. DEGREE: MEDICAL ASSISTING**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Provide competent medical assisting care, in variety of settings, based on the entry-level competencies for the Medical Assistant.
2. Communicate effectively with colleagues, patients/clients, and other members of the health care team.
3. Establish and maintain professional working relationships with men and women from diverse backgrounds.
4. Demonstrate understanding of the legal implications of healthcare and use critical thinking skills to make ethical decisions.
5. Set and achieve professional goals.
6. Make a substantial contribution to the quality of healthcare by representing the medical assisting profession with pride and dedication.

To earn an Associate in Science degree in Medical Assisting, the student must complete the requirements detailed in the Career Technical Education Pathway*.

Consult an advisor for selection of courses.

**TOTAL UNITS IN A.S. MAJOR** ................................................. 60

* The Health Education requirement has been waived for all Allied Health certificates and degrees.

**CERTIFICATE OF ACHIEVEMENT: MEDICAL ASSISTING**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Provide competent medical assisting care, in variety of settings, based on the entry-level competencies for the Medical Assistant.
2. Communicate effectively with colleagues, patients/clients, and other members of the health care team.
3. Establish and maintain professional working relationships with men and women from diverse backgrounds.
4. Demonstrate understanding of the legal implications of healthcare and use critical thinking skills to make ethical decisions.
5. Set and achieve professional goals.
6. Make a substantial contribution to the quality of healthcare by representing the medical assisting profession with pride and dedication.

**REQUIRED COURSES (NON MEDICAL ASSISTING)**

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<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>AP 50</td>
<td></td>
<td>Elementary Human Anatomy-Physiology</td>
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<tr>
<td>PSYCH 51</td>
<td></td>
<td>Psychology in Everyday Life</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td></td>
<td>General Psychology</td>
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<td>Introduction to Human Communication</td>
</tr>
<tr>
<td>COMM 130</td>
<td></td>
<td>Intercultural Communication</td>
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**REQUIRED COURSES (MEDICAL ASSISTING)**

**[FIRST SEMESTER]**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>MDAST 320</td>
<td>3</td>
<td>Introduction to Medical Assisting</td>
</tr>
</tbody>
</table>
Music
PROGRAM
(209) 575-6081

About the Degree Requirements

MUST 101
Theory Sequence Prerequisite
Students with no music theory preparation must complete MUST 101 prior to starting the music theory sequence at MJC. Students with music theory background who wish to bypass MUST 101 must petition using a Prerequisite Challenge Form to gain admission into MUST 121. They must be prepared to take a placement test prior to the first day of class consisting of the following topics: musical notation of basic rhythms, all major and minor scales, key signatures, all diatonic intervals, and all triads and seventh chords. For more information please contact a music faculty member.

Applied Music Courses
Applied courses focus on the development of technical skill and insight into musical performance through primarily individualized instruction on a specific instrument or voice. See an advisor to select the appropriate applied course. Auditions may be required.

Ensemble Courses
Ensemble courses provide students with experience performing in a group setting such as Choir, Community Orchestra, Concert and Symphonic Band, Guitar Orchestra, as well as other smaller groups. See an advisor to select the appropriate ensemble course for your instrument/voice. Auditions may be required.

Keyboard Proficiency Courses
Music majors must take keyboard (piano) courses to prepare for the piano proficiency requirement within most bachelor of music degrees. Students whose primary instrument is piano may use applied piano coursework to satisfy this requirement.

General Education Courses
All candidates for an associate degree at MJC are required to satisfy general education requirements. Music majors should see a music advisor to select appropriate GE courses. Prerequisites may be required. 39 units for CSU-GE, 37-39 units for IGETC. Students who plan to pursue a bachelor degree after transferring are advised to follow CSU-GE or IGETC patterns.

Other Degree Requirements
Students who follow the Associate Degree for Transfer Pathway (CSU Transfer Model Curriculum) are exempt from the Guidance and Activity requirement for degree. Students who follow the Career/Technical Education Pathway or the University Preparation Pathway are not exempt from this requirement.

AA: MUSIC 2-YEAR PLAN
Students who follow the Career/Technical Education Pathway or the University Preparation Pathway and complete the requirements for the MJC Associate in Arts Degree in Music will satisfy lower-division requirements for the Bachelor of Music degree at 4-year institutions. The bachelor's degree in music can lead to careers in fields such as music performance, music education, music composition, and music therapy. Students who follow the University Preparation Pathway and complete the AA: Music requirements will also be eligible for the AA-T in Music degree.

Eligible for AA in Music, AA-T in Music (when following requirements for the University Preparation Pathway) and transfer prepared for bachelor of music programs at 4-year academic institutions.
The MJC Music Program offers courses for students wishing to earn an associate's degree in music, general education courses for non-music majors, and courses designed for community members. These include a comprehensive curriculum of music theory and musicianship. Ensemble and production courses include Concert and Symphonic Bands, Day and Evening Jazz Bands, Concert and Chamber Choirs, Masterworks Chorus, Community Orchestra, Guitar Orchestra, opera/musical theatre productions, chamber music performances, and electronic music productions. The program also offers applied studies in piano, organ, harpsichord, guitar, voice, violin/viola, cello/bass, woodwinds, and brass/percussion, as well as survey courses such as Music Appreciation, Introduction to World Music, Introduction to American Popular Music, and History of Western Music.

ABOUT THE DEGREE REQUIREMENTS

MUST 101
Theory Sequence Prerequisite Students with no music theory preparation must complete MUST 101 prior to starting the music theory sequence at MJC. Students with music theory background who wish to bypass MUST 101 must petition using a Prerequisite Challenge Form to gain admission into MUST 121. They must be prepared to take a placement test prior to the 1st day of class consisting of the following topics: musical notation of basic rhythms, all major and minor scales, key signatures, all diatonic intervals, and all triads and seventh chords. For more information please contact a music faculty member.

Applied Music Courses
Applied courses focus on the development of technical skill and insight into musical performance through primarily individualized instruction on a special instrument or voice. See an advisor to select the appropriate applied course. Auditions may be required.

Ensemble Courses
Ensemble courses provide students with experience performing in a group setting such as Choir, Community Orchestra, Concert and Symphonic Band, Guitar Orchestra, as well as other smaller groups. See an advisor to select the appropriate ensemble course for your instrument/voice. Auditions may be required.

Keyboard Proficiency Courses
Music majors must take keyboard (piano) courses to prepare for the piano proficiency requirement within most bachelor of music degrees. Students whose primary instrument is piano may use applied piano coursework to satisfy this requirement.

General Education Courses
All candidates for an associate degree at MJC are required to satisfy general education requirements. Music majors should see a music advisor to select appropriate GE courses. Prerequisites may be required. 39 units for CSU-GE, 37-39 units for IGETC. Students who plan to pursue a bachelors degree after transferring are advised to follow CSU-GE or IGETC patterns.

Other Degree Requirements
Students who follow the Associate Degree for Transfer Pathway (CSU Transfer Model Curriculum) are exempt from the Guidance and Activity requirement for degree. Students who follow the Career/Technical Education Pathway or the University Preparation Pathway are not exempt from this requirement.

A.A.-T DEGREE: MUSIC

ABOUT THIS PROGRAM
The MJC Music Program offers courses for students wishing to earn an associate's degree in music. Our comprehensive curriculum includes the following core classes for music majors: music theory and musicianship classes; ensemble classes that include Concert and Symphonic Bands, Day and Evening Jazz Bands, Concert and Chamber Choirs, Masterworks Chorus, Community Orchestra, Guitar Orchestra, Opera and Musical Theatre productions, as well as Chamber Music performances. The program also offers applied studies in piano, organ, harpsichord, guitar, voice, violin/viola, cello/bass, woodwinds, and brass/percussion. Lastly, our program also offers survey courses such as Music Appreciation, Introduction to World Music, Introduction to American Popular Music, and History of Western Music that can be taken as electives by both music and non-music majors.

The Associate in Arts in Music for Transfer degree is intended for students who plan to complete a bachelor's degree in Music Studies at a CSU campus. Students completing the transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts this degree will be required to complete no more than 60 units after transferring to earn a bachelor's degree. The transfer degree may not be the best option for students intending to transfer to a particular CSU campus or a university that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Demonstrate musical literacy by decoding music notation through their instrument and/or voice.
2. Demonstrate the ability to use basic musical notation.
3. Perform and stylistically interpret music on their applied instrument or voice, in an ensemble and/or in a solo setting.
4. Demonstrate an awareness of the scope, variety, and structure of works in the canon of traditional western art music.

The following is required for the AA Degree in MUSIC for Transfer:
1. A minimum of 18 semester units or 27 quarter units in the major with a grade of "C" or better or "P" (Pass) while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
2. Completion of 60 semester or 90 quarter CSU-transferable units using the CSU-GE Breadth or the IGETC pattern.
3. Exactly 60 semester units or 90 quarter units are required for the degree.

REQUIRED CORE: (16 UNITS)

- MUST 121 [NP] Music Theory 1 ................................................................. 3
- MUST 122 [NP] Music Theory 2 ................................................................. 3
- MUST 123 [NP] Music Theory 3 ................................................................. 3
- MUST 124 [NP] Music Theory 4 ................................................................. 3
- MUST 131 [NP] Aural Skills 1 ................................................................. 1
- MUST 132 [NP] Aural Skills 2 ................................................................. 1
- MUST 133 [NP] Aural Skills 3 ................................................................. 1
- MUST 134 [NP] Aural Skills 4 ................................................................. 1

APPLIED COURSES, CHOOSE FROM THE FOLLOWING OFFERINGS ACCORDING TO AREA OF CONCENTRATION. FOUR SEMESTERS / FOUR UNITS ARE REQUIRED:

- MUSA 124 [NP] Applied Piano ................................................................. 1
- MUSA 145 [NP] Applied Classical Guitar ............................................. 1
- MUSA 153 [NP] Applied Vocal Repertoire 1 ........................................ 1
- MUSA 154 [NP] Applied Vocal Repertoire 2 ........................................ 1
- MUSA 164 [NP] Applied Music (Vocal & Viola) ..................................... 1
- MUSA 173 [NP] Applied Brass and Percussion ................................... 1
- MUSA 183 [NP] Applied Woodwinds .................................................... 1

ENSEMBLE COURSES: CHOOSE FROM THE FOLLOWING OFFERINGS ACCORDING TO AREA OF CONCENTRATION. FOUR SEMESTERS / FOUR UNITS ARE REQUIRED:

- MUSE 145 [NP] Guitar Orchestra ......................................................... 1
- MUSE 155 [NP] Concert Choir .............................................................. 1
- MUSE 156 [NP] Chamber Choir ............................................................ 1
- MUSE 161 [NP] Community Orchestra ............................................... 1
- MUSE 165 [NP] String Orchestra ......................................................... 1
- MUSE 175 [NP] Symphonic Band .......................................................... 1
- MUSE 181 [NP] Jazz Band ................................................................. 1
TOTAL UNITS REQUIRED IN A.A.-T MAJOR ................................................. 24
TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ........................................ 6
GENERAL EDUCATION (CSU-GE OR IGETC) UNITS ............................. 37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED) ..................................... 3-5
TOTAL UNITS REQUIRED FOR A.A.-T DEGREE ................................. 60

* Note: Double counting of courses in GE and the major is permissible. MJC Guidance and Activities are not required for the Associate in Arts in Music for Transfer degree.

A.A. DEGREE: MUSIC

The MJC Music Program offers courses for students wishing to earn an associate's degree in music, general education courses for non-music majors, and courses designed for community members. These include a comprehensive curriculum of music theory and musicianship. Ensemble and production courses include Concert and Symphonic Bands, Day and Evening Jazz Bands, Concert and Chamber Choirs, Masterworks Chorus, Community Orchestra, Guitar Orchestra, opera/musical theatre productions, chamber music performances, and electronic music productions. The program also offers applied studies in piano, organ, harpsichord, guitar, voice, violin/ viola, cello/bass, woodwinds, and brass/percussion, as well as survey courses such as Music Appreciation, Introduction to World Music, Introduction to American Popular Music, and History of Western Music.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Decode and interpret musical notation and symbols through their instrument and/or voice.
2. Use basic musical notation in composition and performance.
3. Perform and stylistically interpret music on their applied instrument/voice in an ensemble and/or in a solo setting.
4. Discuss the scope, variety, structure, and form of works in the canon of traditional western art music orally and in writing.

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below. Students who plan to transfer to a four-year school are strongly advised to meet with a member of the music faculty.

PROGRAM PREREQUISITES

MUST 101 [P] Music Fundamentals .............................................................. 3 OR

SATISFACTORY SCORE on music theory placement examination offered during the first meeting of MUST 121. Students who do not meet entrance proficiencies will be encouraged to enroll in MUST 101 prior to enrollment in MUST 121.

REQUIRED COURSES IN MUSIC THEORY- COMPLETE 20 UNITS

MUST 121 [1] Music Theory 1 ................................................................. 3
MUST 131 [1] Aural Skills 1 ................................................................. 1
MUST 132 [2] Aural Skills 2 ................................................................. 1
MUST 133 [3] Aural Skills 3 ................................................................. 1
MUST 134 [4] Aural Skills 4 ................................................................. 1
MUST 141 [1] Musicianship and Guided Listing 1 ................................. 1
MUST 142 [2] Musicianship and Guided Listing 2 ................................. 1
MUST 143 [3] Musicianship and Guided Listing 3 ................................. 1
MUST 144 [4] Musicianship and Guided Listing 4 ................................. 1

ENSEMBLE-COMPLETE 4 UNITS

* Students whose primary instrument is woodwinds, brass, or percussion and who intend to participate in the Symphonic Band as their primary ensemble must enroll for a total of 8 units.

MUSE 145 [NP] Guitar Orchestra ................................................................. 1
MUSE 155 [NP] Concert Choir ................................................................. 1
MUSE 161 [NP] Community Orchestra ................................................... 1
MUSE 165 [NP] String Orchestra ............................................................. 1
MUSE 175 [NP] Symphonic Band ............................................................ 1

APPLIED MUSIC - COMPLETE 4 UNITS

MUSA 124 [NP] Applied Piano ................................................................. 1
MUSA 145 [NP] Applied Classical Guitar ............................................... 1
MUSA 153 [NP] Applied Vocal Repertoire 1 ........................................... 1
MUSA 154 [NP] Applied Vocal Repertoire 2 ........................................... 1
MUSA 163 [NP] Applied Music (Violin and Viola) ................................. 1
MUSA 164 [NP] Applied Music (Cello and Bass) ................................. 1
MUSA 173 [NP] Applied Brass and Percussion ..................................... 1
MUSA 183 [NP] Applied Woodwinds ....................................................... 1

* Music majors will typically combine ensembles and applied studies according to their primary instrument/voice. Vocalists will enroll in Concert Choir and the appropriate applied voice course. Orchestral instrumentalists will enroll in Community Orchestra and the appropriate applied strings course. Band instrumentalists will enroll in Symphonic Band and/or Jazz Band and applied woodwinds or brass/percussion. Guitarists will enroll in Guitar Orchestra and the appropriate applied guitar class. Students are strongly advised to seek the advice of a music faculty member specializing in his/her primary instrument/voice when choosing ensemble and applied music courses.

PIANO*** - COMPLETE 2 UNITS

MUSA 121 [NP] Keyboard Skills 1 ........................................................... 1
MUSA 122 [NP] Piano Enrichment .......................................................... 1
MUSA 123 [NP] Intermediate Piano ....................................................... 1
MUSA 124 [NP] Applied Piano ............................................................... 1

*** Students whose primary instrument is piano may count their applied studies in piano toward this requirement.

TOTAL UNITS IN A. A. MAJOR ................................................................. 30

RECOMMENDED MUSIC ELECTIVES

ENSEMBLE-COMPLETE 1-2 UNITS

Any ensemble other than the student’s primary ensemble. (Students are advised to seek the advice of a faculty member directing that ensemble to determine if he/she has the appropriate experience to succeed in the ensemble.)

APPLIED MUSIC- COMPLETE 1-2 UNITS

Any applied music course other than that in the student’s primary instrument/voice. (Students are advised to seek the advice of a faculty member specializing in that instrument/voice to determine which level of course is appropriate.)

OTHER- COMPLETE 1-3 UNITS

MUSG 121 [NP] History of Western Music 1 ........................................... 3
MUSG 122 [NP] History of Western Music 2 ........................................... 3
MUSP 151 [NP] Musical Theatre Workshop ........................................... 2
MUSP 153 [NP] Advanced Musical Theatre Workshop ......................... 2

TOTAL OPTIONAL MUSIC ELECTIVES .................................................. 3-7
Network Administration

PROGRAM
(209) 575-6129

This certificate is designed for students seeking entry-level job positions in computer network administration, designing networks, installing server and client operating systems, configuring network services, and implementing network security.

* Note: All of these courses are also preparation for Microsoft certification as a Microsoft Certified Professional (MCP) in the individual subject. A student who has completed the Network Administration Certificate would be eligible to complete the Microsoft Certified Systems Engineer (MCSE) certification with the completion of just one additional course from the options list.

CERTIFICATE OF ACHIEVEMENT:
COMPUTER NETWORK ADMINISTRATION

This certificate is designed for students seeking entry-level job positions in computer network administration, designing networks, installing server and client operating systems, configuring network services, and implementing network security. Note: All of these courses are also preparation for Microsoft certification as a Microsoft Certified Professional (MCP) in the individual subject. A student who has completed the Network Administration Certificate would be eligible to complete the Microsoft Certified Systems Engineer (MCSE) certification with the completion of just one additional course from the options list.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate a firm understanding and working knowledge of basic network topologies, client and server operating system configuration, network security principals, and directory services.
2. Be prepared to obtain employment in an entry-level position assisting in network design and implementation.
3. Design, implement and document a client/server network complete with security policy and a disaster recovery plan for a small-business network.
4. Demonstrate professional and effective communication skills.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – COMPLETE 15 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 210</td>
<td>Intro to UNIX/Linux Syst &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 223</td>
<td>Database Server Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 231</td>
<td>Windows Server OS</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 240</td>
<td>Advanced Networking &amp; Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 242</td>
<td>Directory Services</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.......................... 15

CERTIFICATE OF ACHIEVEMENT:
COMPUTER NETWORK TECHNICIAN

This certificate is designed for students seeking entry-level job positions in computer network administration, designing networks, installing server and client operating systems, configuring network services, and implementing network security. Note: All of these courses are also preparation for Microsoft certification as a Microsoft Certified Professional (MCP) in the individual subject. A student who has completed the Network Administration Certificate would be eligible to complete the Microsoft Certified Systems Engineer (MCSE) certification with the completion of just one additional course from the options list.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate a firm understanding and working knowledge of basic network troubleshooting techniques.
2. Be prepared to obtain employment in an entry-level position as a network technician and help-desk support tech.
3. Install, configure, upgrade and maintain personal computer hardware and operating systems.
4. Install, configure, and troubleshoot basic networking hardware and protocols.
5. Provide support for users of operating systems, applications and computer information systems.
6. Demonstrate professional and effective communication skills.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES – COMPLETE 13 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 210</td>
<td>General Computer Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 206</td>
<td>Personal Computer Assembly, Upgrading &amp; Repairing</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 210</td>
<td>Intermediate PC Servicing w/A+ Training</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 240</td>
<td>Networking Essentials</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES – COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 210</td>
<td>Intro to UNIX/Linux Syst &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>ELEETC 208</td>
<td>Fundamentals of Electricity and Electronics</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.......................... 16

Nursing: Associate Degree
Nursing (ADN) PROGRAM
(209) 575-6362

The Associate Degree Nursing (ADN) Program at Modesto Junior College prepares students to take the National Council Licensure Examination (NCLEX-RN), leading to licensure as a Registered Nurse (RN). The program is approved by the California Board of Registered Nursing (BRN). The ADN Program begins in the fall and spring semesters of each year. It is a four-semester program. Although most classes are scheduled during
ELIGIBILITY AND PREPARATION FOR THE ASSOCIATE DEGREE NURSING PROGRAM

- Admission to Modesto Junior College
- Official Transcripts on File in MJC Enrollment Services: All transcripts from colleges other than MJC and Columbia College (CC) must be submitted as a part of your documentation packet if requested by the Allied Health Program, unless the transcripts are already on file in the MJC Enrollment Services, Student Services Building 102, (209) 575-6853. We will accept hand-carried transcripts that are in a sealed envelope with a school seal.

REQUIRED MATH COMPETENCY FOR ACCEPTANCE INTO THE ADN PROGRAM

- Eligibility for entrance into any 100-level MATH course through MJC Assessment process OR
- Score of 3, 4, or 5 on AP Exam: Calculus AB OR Calculus BC or Statistics OR
- Completion of MATH 89 at MJC or higher level MATH course, or an equivalent course from another institution with a grade of C or higher. Course may be taken as P/NP or CR/NC
- Score of 5 on IB exam; Mathematics HL

Bachelor’s degree holders are considered to have met this requirement.

In accordance with the California Nursing Practice Act and the Board of Registered Nursing (BRN), the California Code of Regulations (CCR) Section 1430 states: An approved nursing program shall have a process for a student to obtain credit for previous education or for other acquired knowledge in the field of nursing through equivalence, challenge examinations, or other methods of evaluation. The program shall make the information available in published documents, such as college catalog or student handbook, and online. Students interested in obtaining credit for previous education or for other acquired knowledge in the field of nursing should reference the current MJC catalog under “Credit.” In addition, the student may make an appointment with a nursing advisor by calling (209) 575-6362. A nursing advisor will inform the student of available options and assist the student in completing the process for the appropriate option such as course equivalency, course substitution, upper division course credit, course challenges, advanced placement and/or theory and skill set critical element testing.

PROGRAM APPLICATION

The ADN program application is online. Applications are accepted for the ADN Program once per year. The annual application period is May 1 through May 31. Students are selected from the annual applicant pool for fall and spring semesters of that academic year. Applications are available on the Allied Health website (www.mjc.edu/alliedhealth) during the May application period only. If you are interested in the MJC ADN transfer policy go to www.mjc.edu/alliedhealth.

SELECTION PROCESS

The ADN Program utilizes a multicriteria screening process for admission.

MULTICRITERIA SCREENING PROCESS

The ADN program selects students based on a Multicriteria Screening Process. Detailed information is posted on the ADN website. This selection model is based on Assembly Bill 1559. Applicants will be evaluated on 1) academic degree, relevant licenses or certificates, relevant work or volunteer experience, 2) GPA in relevant coursework, 3) life experiences or special circumstances, 4) proficiency in a language other than English and the 5) Test of Essential Academic Skills (TEAS). The TEAS measures skills in the content area domains of Reading, Mathematics, Science and English and Language Usage. Preparation materials are available in the MJC Library & Learning Center, and Assessment Technologies Institute (ATI) at www.atitesting.com.

Prospective nursing students are required to have a total scaled score of 427 (62%) or higher on the Test of Essential Academic Skills (TEAS) within the first three attempts to apply to the MJC Associate Degree Nursing (ADN) program. For information on scheduling a TEAS, go to www.atitesting.com. The TEAS is offered at the MJC testing center.

ADDITIONAL REQUIREMENTS FOR ACCEPTED APPICANTS ONLY

Accepted applicants will receive information regarding clinical clearance.

CLINICAL CLEARANCE

HEALTH CLEARANCE

- A medical history and physical examination completed by a physician, physician’s assistant, or nurse practitioner within six months prior to program start date or re-entry date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.
- Documentation of required immunizations.
- A negative tuberculosis skin test (TST) must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

BACKGROUND CHECK

All students participating in clinical assignments are required by acute care facilities to complete a criminal background check and be cleared by the clinical facility in order to participate in the clinical experience. See Policy for Denial of Licensure below.

DRUG SCREEN

All students participating in clinical assignments will be required to pass a drug screen.

BASIC LIFE SUPPORT (BLS) CERTIFICATION

The ADN program will offer a Health Care Provider Basic Life Support (BLS) class from the American Heart Association (AHA) for all accepted applicants. Students are required to purchase an AHA BLS for Healthcare Provider textbook.

SCHOLASTIC REQUIREMENTS

Continuation in the ADN Program is dependent upon completion of all courses with a grade of C or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for the NCLEX-RN. In the ADN program, seventy six percent (76%) is the minimum score required to obtain a grade of C.
POLICY FOR DENIAL OF LICENSURE

The California BRN protects the public by screening applicants for licensure in order to identify potentially unsafe practitioners. Statutory authority for denial of licensure is contained in the Business and Professions Code. Any student considering a career in nursing who has a criminal record is advised to go to the BRN website at www.rn.ca.gov and search Enforcement and then License Discipline and Convictions prior to applying to the ADN Program.

- Pre-nursing students with a criminal record should attempt to have convictions expunged prior to applying for entrance into the nursing program.
- A criminal record may prevent students from clinical placement and therefore, continuing in a nursing program.

PROGRAM ADVISORY

* Students are strongly advised to complete the additional MJC GE Graduation Requirements (Activities – 2 units, Guidance – 0.5 unit, and Humanities – 3 units) prior to entering the ADN Program. These courses must be successfully completed by the end of the 4th semester of the program to be considered a graduate of the ADN Program and be eligible to take the NCLEX-RN. To graduate from the MJC ADN Program, a student must: 1) complete all ADN Program requirements; 2) complete the 4th semester of the MJC ADN Program; 3) complete 12 units “in residence” at MJC; and 4) complete the MJC GE graduation requirements.

A.S. DEGREE: NURSING: ASSOCIATE DEGREE NURSING PROGRAM (RN)

The Associate Degree Nursing (ADN) program at Modesto Junior College prepares students to take the National Council Licensure Examination (NCLEX-RN), leading to licensure as a Registered Nurse (RN). The program is approved by the California Board of Registered Nursing (BRN).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student:

1. Formulates a nursing diagnosis through observation of the client’s physical condition and behavior, and through interpretation of information obtained from the client and others, including the health team.
2. Formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client’s safety, comfort, hygiene, and protection, and for disease prevention and restorative measures.
3. Performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teaches the client and family how to care for the client’s health needs.
4. Delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
5. Evaluates the effectiveness of the care plan through observation of the client’s physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client and health team members; modifies the plan as needed.
6. Acts as the client’s advocate, as circumstances require, by initiating action to improve health care or to change decisions or activities which are against the interests or wishes of the client, and by giving the client the opportunity to make informed decisions about health care before it is provided.
7. Employs concepts of the Roy Adaptation Model to individualize patient-centered care.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree in Nursing, the student must complete the requirements detailed in the Career Technical Education Pathway® or the University Preparation Pathway® in addition to the nursing coursework. Consult with an advisor for selection of courses.

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 125</td>
<td>NP</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>MICRO 101</td>
<td>NP</td>
<td>Microbiology</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>NP</td>
<td>Introductory Human Physiology</td>
</tr>
<tr>
<td>ENGL 101</td>
<td></td>
<td>Composition and Reading</td>
</tr>
<tr>
<td>PSYCH 141</td>
<td></td>
<td>Human Lifespan Development</td>
</tr>
</tbody>
</table>

PSYCHOLOGY 101: GENERAL PSYCHOLOGY OR THE EQUIVALENT COURSE TAKEN PRIOR TO FALL 2016 WILL CONTINUE TO BE ACCEPTED FOR THE ADN PROGRAM.

COMPLETE ONE COURSE FROM THE FOLLOWING:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHR 102</td>
<td>NP</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>SOCIO 101</td>
<td>NP</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOCIO 102</td>
<td>NP</td>
<td>Social Problems in the United States</td>
</tr>
<tr>
<td>SOCIO 125</td>
<td>NP</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>NP</td>
<td>Ethnicity and Culture in America</td>
</tr>
<tr>
<td>SOCIO 154</td>
<td>NP</td>
<td>African-American Cultures and Communities</td>
</tr>
<tr>
<td>SOCIO 156</td>
<td>NP</td>
<td>Mexican Culture in the United States</td>
</tr>
</tbody>
</table>

COMPLETE ONE COURSE FROM THE FOLLOWING:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100</td>
<td>NP</td>
<td>Fundamentals of Public Speaking</td>
</tr>
<tr>
<td>COMM 102</td>
<td>NP</td>
<td>Introduction to Human Communication</td>
</tr>
<tr>
<td>COMM 106</td>
<td>NP</td>
<td>Group &amp; Organizational Communication</td>
</tr>
<tr>
<td>COMM 110</td>
<td>NP</td>
<td>Persuasion</td>
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</tbody>
</table>

TOTAL UNITS IN PREREQUISITE COURSES............................................ 24

PROGRAM REQUIREMENTS

[FIRST SEMESTER]

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NURS 270</td>
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<td>Nursing Process: Pharmacology</td>
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[SECOND SEMESTER]

<table>
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<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
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[THIRD SEMESTER]

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NURS 275</td>
<td>[3]</td>
<td>Nursing Process: Medical - Surgical</td>
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</tbody>
</table>

[FOURTH SEMESTER]

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 278</td>
<td>[4]</td>
<td>Nursing Process: Advanced Medical - Surgical</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN NURSING MAJOR .................................................. 36

TOTAL UNITS with PREREQUISITE COURSEWORK & NURSING MAJOR COURSEWORK .................................................. 60

A.S. DEGREE: NURSING (FOR RN)

To earn an Associate in Science degree in Nursing, the student must complete the requirements detailed in the Career Technical Education Pathway® or the University Preparation Pathway® in addition to the Nursing coursework. Consult with an advisor for selection of courses. (5.5 units)

MINIMUM UNITS IN A.S. DEGREE .................................................. 65.5

ELECTIVE COURSES (NURSING: WORK EXPERIENCE)

Work experience in nursing is offered for students who have completed the first semester of the ADN program. Work Experience must take place at a contracted facility.
A.S. DEGREE: NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY

The Licensed Vocational Nurse (LVN) to Associate Degree Nursing (ADN) Advanced Placement Pathway at Modesto Junior College prepares students to take the National Council Licensure Examination (NCLEX-RN), leading to licensure as a Registered Nurse (RN). The pathway is approved by the California Board of Registered Nursing (BRN).

The LVN to ADN Advanced Placement Pathway begins in the fall and spring semesters of each year. It is a two-semester pathway. Students enter in the third semester of the ADN Program. Although most classes are scheduled during the day, clinical experiences may include morning, evening, night, and weekend hours. During the five-week Leadership Preceptorship in NURSE 278, students will be expected to be in the clinical area on a full-time basis. Students must be flexible and prepared to accept these assignments.

Pathway expenses vary for each individual. The estimated cost for the pathway is approximately $4,000. Startup costs for third semester are approximately $2,000. These costs include enrollment and materials fees, background check and drug screen fees, health clearance, Basic Life Support (BLS) certification, uniforms, books and pre-licensure readiness examination. Daily access to a computer and the internet is required for student success. For information on financial aid, call (209) 575-7700. For academic advising contact Allied Health, (209) 575-6362. For program information, call Allied Health, (209) 575-6362 or visit the Allied Health website at www.mjc.edu/alliedhealth and search LVN to ADN Advanced Placement Pathway.

ELIGIBILITY AND PREPARATION FOR THE LVN TO ADN ADVANCED PLACEMENT PATHWAY

- Admission to Modesto Junior College
- Official Transcripts on File in MJC Enrollment Services: All transcripts (from colleges other than MJC and Columbia College (CC) must be submitted as a part of your documentation packet if requested by the ADN Program, unless the transcripts are already on file in the MJC Enrollment Services, Student Services Building 102, (209) 575-6853. We will accept hand-carried transcripts that are in a sealed envelope with a school seal.

REQUIRED MATH COMPETENCY FOR ACCEPTANCE INTO THE ADN PROGRAM

- Eligibility for entrance into any 100-level MATH course through MJC Assessment process OR
- Score of 3, 4, or 5 on AP Exam: Calculus AB or Calculus BC or Statistics OR
- Completion of MATH 89 at MJC or higher level MATH course, or an equivalent course from another institution with a grade of C or higher. Course may be taken as a P/NP or CR/NC
- Score of 5 on IB exam; Mathematics HL

Bachelor’s degree holders are considered to have met this requirement.

PATHWAY APPLICATION

The application is online. Applications are accepted once a year. The annual application period is May 1 through May 31. Students are selected from the annual applicant pool for fall and spring semesters of that academic year. Applications are available on the Allied Health website (www.mjc.edu/alliedhealth) during the May application period only. If you are interested in the MJC ADN transfer policy go to www.mjc.edu/alliedhealth.

SELECTION PROCESS

The ADN Program utilizes a multicriteria screening process for admission.

MULTICRITERIA SCREENING PROCESS

The ADN program selects students based on a Multicriteria Screening Process. Detailed information is posted on the ADN website. This selection model is based on Assembly Bill 1559. Applicants will be evaluated on 1) academic degree, relevant licenses or certificates, relevant work or volunteer experience, 2) GPA in relevant coursework, 3) life experiences or special circumstances, 4) proficiency in a language other than English and the 5) Test of Essential Academic Skills (TEAS). The TEAS measures skills in the content area domains of Reading, Mathematics, Science and English and Language Usage. Preparation materials are available in the MJC Library & Learning Center, and from Assessment Technologies Institute (ATI) at www.atitesting.com.

Prospective nursing students are required to have a total scaled score of 427 (62%) or higher on Test of Essential Academic Skills (TEAS) within the first three attempts to apply to the MJC Associate Degree Nursing (ADN) Program. For information on scheduling a TEAS, go to atitesting.com. The TEAS is offered at the MJC testing center.

ADDITIONAL REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applicants will receive information regarding clinical clearance.

CLINICAL CLEARANCE

HEALTH CLEARANCE

- A medical history and physical examination completed by a physician, physician's assistant, or nurse practitioner within six months prior to program start date or re-entry date. The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.
- Documentation of required immunizations.
- A negative tuberculin skin test (TST) must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

BACKGROUND CHECK

All students participating in clinical assignments are required by acute care facilities to complete a criminal background check and be cleared by the clinical facility in order to participate in the clinical experience. See policy for denial of licensure.

DRUG SCREEN

All students participating in clinical assignments will be required to pass a drug screen.

BASIC LIFE SUPPORT (BLS) CERTIFICATION

The ADN program will offer a Health Care Provider Basic Life Support (BLS) class from the American Heart Association (AHA) for all accepted applicants. Students are required to purchase an AHA BLS for Healthcare textbook.

SCHOLASTIC REQUIREMENTS

Continuation in the LVN to ADN Advanced Placement Pathway is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for the National Council Licensure Examination (NCLEX-RN). In the ADN program, seventy-six percent (76%) is the minimum score required to obtain a grade of C.

POLICY FOR DENIAL OF LICENSURE

The California BRN protects the public by screening applicants for licensure in order to identify potentially unsafe practitioners. Statutory authority for denial of licensure is contained in the Business and Professions Code. Any student considering a career in nursing who has a criminal record is advised to go to the BRN website at www.rn.ca.gov.
To graduate from the MJC ADN Program, a student must: 1) complete all LVN TO ADN Advanced Placement Pathway requirements; 2) complete the 4th semester of the MJC

**PROGRAM ADVISORY**

* Students are strongly advised to complete the additional MJC GE Graduation Requirements (Activities — 2 units, Guidance — 0.5 unit, and Humanities — 3 units) prior to entering the LVN to ADN Advanced Placement Pathway. These courses must be successfully completed by the end of the 4th semester of the program to be considered a graduate of the MJC ADN Program and be eligible to take the NCLEX-RN.

To graduate from the MJC ADN Program, a student must: 1) complete all LVN TO ADN Advanced Placement Pathway requirements; 2) complete the 4th semester of the MJC ADN program; 3) complete 12 units “in residence” at MJC; and 4) complete the MJC GE graduation requirements.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student:

1. Formulates a nursing diagnosis through observation of the client’s physical condition and behavior, and through interpretation of information obtained from the client and others, including the health care team.
2. Formulates a care plan, in collaboration with the client, which ensures that direct and indirect nursing care services provide for the client’s safety, comfort, hygiene, and protection, and for disease prevention and restorative measures.
3. Performs skills essential to the kind of nursing action to be taken, explains the health treatment to the client and family and teaches the client and family how to care for the client’s health needs.
4. Delegates tasks to subordinates based on the legal scopes of practice of the subordinates and on the preparation and capability needed in the tasks to be delegated, and effectively supervises nursing care being given by subordinates.
5. Evaluates the effectiveness of the care plan through observation of the client’s physical condition and behavior, signs and symptoms of illness, and reactions to treatment and through communication with the client and health team members, and modifies the plan as needed.
6. Acts as the client’s advocate, as circumstances require, by initiating action to improve health care or to change decisions or activities which are against the interests or wishes of the client, and by giving the client the opportunity to make informed decisions about health care before it is provided.
7. Employs concepts of the Roy Adaptation Model to individualize patient-centered care.

**A.S. DEGREE NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY PREREQUISITES**

Must be a Licensed Vocational Nurse with an active license and IV certification in California. Submit a copy of the current license.

**NOTE:** An applicant who became an LVN by challenging the LVN Board must complete 30 college units in the nursing major and have a total of 60 college units in order to receive an A.S. Degree. Contact Allied Health for advising regarding this issue at (209) 575-6362.

**NURSE 259 (NP) LVN Transition: Role Change Preparation**

**ANAT 125 (NP) Human Anatomy**

**MICRO 101 (NP) Microbiology**

**PHYS 101 (NP) Introductory Human Physiology**

**ENGL 101 (NP) Composition and Reading**

**PSYCH 141 (NP) Human Lifespan Development**

Psychology 101: General Psychology or the equivalent course taken prior to fall 2016 will continue to be accepted for acceptance into the ADN program.

**COMPLETE ONE COURSE FROM THE FOLLOWING:**

- ANTHR 102 (NP) Cultural Anthropology
- SOCIO 101 (NP) Introduction to Sociology
- SOCIO 102 (NP) Social Problems in the United States
- SOCIO 125 (NP) Sociology of the Family
- SOCIO 150 (NP) Ethnicity and Culture in America
- SOCIO 154 (NP) African-American Cultures and Communities
- SOCIO 156 (NP) Mexican Culture in the United States

**TOTAL ADVANCED PLACEMENT PATHWAY PREREQUISITE UNITS ———— 26**

**A.S. DEGREE NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY REQUIREMENTS**

**[FIRST SEMESTER]**

<table>
<thead>
<tr>
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<td>NURSE 275 (NP)</td>
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**[SECOND SEMESTER]**

<table>
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<tr>
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<tr>
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</tr>
</tbody>
</table>

**TOTAL UNITS IN A.S. DEGREE NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY ———— 20**

**TOTAL UNITS WITH PREREQUISITE COURSEWORK FOR A.S. DEGREE NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY ———— 46**

To earn an Associate in Science degree in Nursing the student must complete the requirements detailed in the Career Technical Pathway (p. 109) or the University Preparation Pathway (p. 103) in addition to the Nursing/LVN to ADN Advanced Placement Pathway coursework. Consult with an advisor for selection of courses. (5.5 units)

**MINIMUM UNITS IN A.S. DEGREE NURSING: LVN TO ADN (RN) ADVANCED PLACEMENT PATHWAY ———— 51.5**

**NURSING: LVN 30 UNIT OPTION (LVN TO RN)**

In addition to the LVN to ADN Advanced Placement Pathway, there is also an LVN 30 Unit Option which prepares students to take the NCLEX-RN but does not award an A.S. degree. Students interested in this option should contact the Director of Nursing in Allied Health for information and advising.
NURSING: Nurse Assistant

PROGRAM
(209) 575-6362

The Nurse Assistant Program at Modesto Junior College is a one-semester course that includes 50 hours of classroom instruction and 100 hours of supervised clinical experience within the guidelines set by the California Department of Public Health (CDPH). After completing the course with a C grade or better, students are eligible to take the certification examination to become a certified nurse assistant (CNA). The exam has been developed to meet the evaluation requirements of federal and state nurse aid and competency evaluation legislation. American Red Cross testing is available at MJC at the end of each semester.

Program expenses vary for each individual. The estimated cost for the Nurse Assistant Program is $650 and includes books, enrollment fees, health clearance, state application fees and certification examination. For financial aid information, call (209) 575-7700. For program information, contact Allied Health, 575-6362 or visit the Allied Health website at www.mjc.edu/alliedhealth and search Nurse Assistant Program.

ELIGIBILITY AND PREPARATION FOR THE NURSE ASSISTANT PROGRAM

• Admission to Modesto Junior College
• High School Graduation or Equivalent (GED or College Degree)

Although high school graduation is not required, it is recommended for success.

RECOMMENDED COMPETENCY

The following competency is recommended for success in the Nurse Assistant Program.

READ 184   [NP] Critical Reading (C or better) .............................................................. 3 OR
Reading competency (BS) on Accuplacer ........................................................................ OR
Completion of a college degree from an accredited United States college.

PROGRAM PREREQUISITES

None required

PROGRAM APPLICATION

None required

SKILLS RECOGNITION: NURSE ASSISTANT

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Provide competent resident care based on the skill set of a certified nurse assistant (CNA).
2. Complete the required hours for theory and clinical as set by the state of California.
3. Provide compassionate end of life care.
4. Communicate professionally with residents, families, peers and professional staff.
5. Pass the state of California certification examination as a Certified Nurse Assistant (CNA).

REQUIRED CURRICULUM

NURSE 52  [NP] Nurse Assistant ................................................................. 5 AND
NURSK 800  [NP] Nursing Skills Development .............................................. 0

TOTAL UNITS FOR SKILLS RECOGNITION AWARD........................................... 5

ADDITIONAL REQUIREMENTS FOR STUDENTS ENROLLED IN NURSE 52

Please Note: In order to complete the health clearance process in a timely manner, students who are enrolled in Nurse 52 must attend a mandatory orientation. Enrolled students will be notified via student email of the date and time of the orientation. Instructions for completing the health clearance will be provided at the orientation. It is expected that enrolled students will have already begun the health clearance process prior to the first day of class.

CLINICAL CLEARANCE

HEALTH CLEARANCE

• A medical history and physical examination completed by a physician, physician's assistant, or nurse practitioner within three months prior to program start date.

• Documentation of required immunizations.

• A negative tuberculin skin test (TST) must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

FINGERPRINTING AND BACKGROUND CHECK

• All students participating in clinical assignments are required to complete a criminal background check and Live Scan to be cleared by California Department of Public Health (CDPH) in order to participate in the clinical experience.

The students will not be charged for this requirement.

NURSE ASSISTANT CERTIFICATION APPLICATION (HS-283B)

• Nurse 52 students will receive required forms and instructions on completing the CDPH application process on the first day of class.

POLICY FOR DENIAL OF CERTIFICATION

Individuals who have been convicted of certain penal code violations will not be certified unless the individual submits written evidence obtained from the court of “rehabilitation” (if a felony) or a dismissal of the violation (if a misdemeanor). If you have been convicted of one of these crimes, you should be aware that you cannot be certified unless you meet the specified conditions of rehabilitation or dismissal issued by the courts and have received approval from the CDPH. All other convictions not listed, except minor traffic violations, are subject to department review and require that you submit additional information.

TO REQUEST CLEARANCE FOR PRIOR CONVICTION(S) OR DISCIPLINARY ACTION, CONTACT:

California Department of Public Health
ATCS MS 3201
PO Box 997416
Sacramento, CA 95899-7416
(916) 327-2445
www.cdph.ca.gov
Office Administration
PROGRAM (209) 575-6129

The Office Administration A.S. Degree/Certificate Program is designed to prepare students for occupations in the office administration field. Some career possibilities are administrative assistant, executive secretary, office manager, office supervisor, and transcriptionist. Office administration involves the study of office procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of skills necessary for success in these positions. Students learn keyboarding, word processing, records management, human relations, business communication, and math. Word processing, letter composition, and office administration procedures are emphasized to prepare students for the assumption of responsible positions.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.
2. Competently communicate in support of a business office, including production and design of complex electronic and paper-based correspondence and documents.
3. Actively assist in implementing general office procedures, including records management.
4. Actively assist in implementing general office procedures, including records management.
5. Use the Internet and a wide variety of computer applications to compute, to analyze, and to solve business problems.
6. Efficiently perform office-related duties utilizing prioritization and necessary communication skills.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree, the student must complete the requirements detailed in the Career Technical Educational Pathway or the University Preparation Pathway which include completion of the requirements below.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFADM 202</td>
<td>Intermediate Keyboarding 2</td>
<td>2</td>
</tr>
<tr>
<td>OFADM 231</td>
<td>Intermediate Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 259</td>
<td>Introduction to Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 262</td>
<td>Introduction to Business Presentation Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 304</td>
<td>Professional English for Business</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 305</td>
<td>Records Management</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 313</td>
<td>Skills for the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 314</td>
<td>Office Procedures &amp; Technologies</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 315</td>
<td>Today's Office</td>
<td>2</td>
</tr>
<tr>
<td>OFADM 316</td>
<td>Introduction to Microsoft Outlook</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 320</td>
<td>Telephone Techniques</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 330</td>
<td>Beginning Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>OFADM 375</td>
<td>10-Key on the Computer</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR: 29-30

*Offered only in fall semester
**Offered only in spring semester

A.S. DEGREE: CLERICAL

The Clerical program is designed to prepare students for various types of office occupations in the clerical field. Clerical training involves the study of various procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of basic skills necessary for success in these positions. Students learn keyboarding, word processing, records management, human relations, business communication, and math. Word processing, letter composition, and office administration procedures are emphasized to prepare students for the assumption of responsible positions.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.
2. Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and other office machines.
3. Actively assist in implementing general office procedures, including records management.

PROGRAM REQUIREMENTS

To earn an Associate in Science degree, the student must complete the requirements detailed in the Career Technical Educational Pathway or the University Preparation Pathway which include completion of the requirements below.

REQUIRED COURSES

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<tr>
<td>OFADM 232</td>
<td>Advanced Word Processing and Desktop Publishing</td>
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</tr>
<tr>
<td>OFADM 259</td>
<td>Introduction to Spreadsheet Software</td>
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<tr>
<td>OFADM 260</td>
<td>Intermediate Spreadsheet Software</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 261</td>
<td>Introduction to Databases</td>
<td>1</td>
</tr>
<tr>
<td>OFADM 262</td>
<td>Introduction to Business Presentation Software</td>
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<td>OFADM 304</td>
<td>Professional English for Business</td>
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<td>Office Procedures &amp; Technologies</td>
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<td>OFADM 315</td>
<td>Today's Office</td>
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<tr>
<td>OFADM 316</td>
<td>Introduction to Microsoft Outlook</td>
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<tr>
<td>OFADM 320</td>
<td>Telephone Techniques</td>
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<td>OFADM 375</td>
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<td>BUSAD 210</td>
<td>Business Communication</td>
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<tr>
<td>BUSAD 230</td>
<td>Bookkeeping</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 231</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR: 30

*Offered only in fall semester
**Offered only in spring semester
CERTIFICATE OF ACHIEVEMENT: CLERICAL

The Clerical program is designed to prepare students for various types of office occupations in the clerical field. Clerical training involves the study of various procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of basic skills necessary for success in those positions. Students learn keyboarding, records management, human relations, office software, and business computations. Career possibilities in the clerical field are numerous. Jobs exist in governmental agencies, schools, health facilities, stores, and in private businesses. Some of the career alternatives for clerical graduates are records clerk, file clerk, general office clerk, mail clerk, receptionist, word processor, and office assistant.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Efficiently perform office-related duties utilizing prioritization and necessary office procedures to compute, analyze business performance and solve problems.
2. Competently communicate in support of a business office, including production and design of complex electronic and paper based correspondence and documents.
3. Use the Internet and a wide variety of computer applications to compute, to analyze, and to solve business problems.
4. Use the Internet, a wide variety of computer applications and standard business procedures to compute, analyze business performance and solve problems.
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6. Use the Internet, a wide variety of computer applications and standard business procedures to compute, analyze business performance and solve problems.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>Skills for the Workplace</td>
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<td>POFAM 314*</td>
<td>Office Procedures &amp; Technologies</td>
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<td>POFAM 320</td>
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<tr>
<td>POFAM 363</td>
<td>Understanding the Internet</td>
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<td>BUSAD 50</td>
<td>Business Computations</td>
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TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 32

*Offered only in fall semester
**Offered only in spring semester

CERTIFICATE OF ACHIEVEMENT: OFFICE ADMINISTRATION

The Office Administration A.S. Degree/Certificate Program is designed to prepare students for occupations in the office administration field. Some career possibilities are administrative assistant, executive secretary, office manager, office supervisor, and transcriptionist. Office administration involves the study of office procedures, duties, and practices applicable to many business offices, as well as the development and acquisition of skills necessary for success in these positions. Students learn keyboarding, word processing, records management, human relations, business communication, and math. Word processing, letter composition, and office administration procedures are emphasized to prepare students for the assumption of responsible positions.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Productively work as a team member with people of diverse experiences and backgrounds.
2. In a workplace environment.
3. Competently use a wide variety of office equipment, including computers, peripherals, and other office machines.
4. Assist in implementing general office procedures, including records management.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 32-33 UNITS

<table>
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<tr>
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<tr>
<td>BUSAD 215</td>
<td>Business Presentation Graphics</td>
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<tr>
<td>BUSAD 210</td>
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<td>BUSAD 50</td>
<td>Business Computations</td>
<td>3 OR</td>
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<tr>
<td>BUSAD 310</td>
<td>Bookkeeping 1</td>
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<td>BUSAD 201</td>
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TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD .......................... 32-33

*Offered only in fall semester
**Offered only in spring semester
To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

CERTIFICATE OF ACHIEVEMENT: RECORDS MANAGEMENT/DATA ENTRY SPECIALIST

The Records Management/Data Entry Specialist Certificate of Achievement is designed for students desiring to meet entry-level requirements for records management and data entry employees: keyboarding, filing rules and their applications, manual and computer filing system development, telephone techniques, time management skills, ten-key data entry and math calculations.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Actively assist in implementing general office procedures, including records management.
2. Efficiently perform office-related duties utilizing prioritization and necessary communication skills.
3. Utilize computer software to manage data effectively.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

CERTIFICATE OF ACHIEVEMENT: OFFICE SUPPORT

The Office Support Certificate of Achievement is designed for students desiring to meet entry level qualifications for office support positions which require keyboarding, telephone techniques, business document formatting, document organization, time management, word processing skills, Internet and e-mail protocol, and spreadsheet design.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and other office machines.
2. Actively assist in implementing general office procedures, including records management.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

Pharmacy Technician

Contact Workforce Development at (209) 575-6885
Philosophy

PROGRAM
(209) 575-6129

A.A.-T DEGREE: PHILOSOPHY

Philosophy is the study of fundamental questions such as: What is ultimately real? What is the good life? Does God exist? The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree includes lower division coursework that is required for transfer and is an excellent way to refine one's critical reasoning and rational decision-making skills, making it a useful degree for a wide variety of career goals. The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree includes courses that help students to construct arguments, to read classic texts carefully, and to formulate crucial questions while providing a deeper grasp of our intellectual heritage.

The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree is intended for students who plan to complete a bachelor's degree in Philosophy at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER (AA-T IN PHILOSOPHY) DEGREE:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better or "P" (Pass).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Read and analyze key arguments found in primary texts from the philosophical tradition.
2. Construct a clearly written argument employing various philosophical tools, including consideration of counter-arguments, in the critical evaluation of a philosophical primary text.
3. Explain and apply deductive and inductive reasoning, critical thinking, and basic methods of formal logic.
4. Describe the historical development of philosophical ideas from ancient to modern philosophy, including terms employed in the discussion of these developments on fundamental questions that include topics of reality, knowledge, and value.

PROGRAM REQUIREMENTS

To receive an Associate of Arts for transfer degree in Philosophy, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway. All courses must be completed with a C or better or "P" (Pass).

REQUIRED COURSES - SELECT TWO (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 103</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Philosophy</td>
<td>3 OR</td>
</tr>
<tr>
<td>PHIL 111</td>
<td>Ethics: Theory and Application</td>
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LIST A - SELECT ONE (3 UNITS)

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<thead>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PHIL 120</td>
<td>History of Philosophy: Ancient</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 121</td>
<td>History of Philosophy: Modern</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Critical Reasoning and Analytic Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 107</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 123</td>
<td>Twentieth Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 130</td>
<td>Political Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B - SELECT TWO (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 104</td>
<td>Western Civilization to 1650</td>
<td>3</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Western Civilization Since 1650</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 115</td>
<td>Religion: Philosophical and Comparative Inquiry</td>
<td>3</td>
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</table>

LIST C - SELECT ONE (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>PHIL 113</td>
<td>Philosophy and Art</td>
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</tr>
<tr>
<td>PHIL 135</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 140</td>
<td>Philosophy and Film</td>
<td>3</td>
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</table>

TOTAL UNITS FOR THE MAJOR ................................................................. 18

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ............................................. 6-18

GENERAL EDUCATION (CSU GE OR IGETC) UNITS ........................................ 37-39

ELECTIVE (CSU TRANSFERABLE UNITS) ....................................................... 11-21

TOTAL DEGREE UNITS (MAXIMUM) ............................................................. 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

Phlebotomy

Contact Workforce Development at (209) 575-6885
A.A.-T DEGREE: KINESIOLOGY

The Associate in Arts in Kinesiology for Transfer degree is intended for students who plan to complete a bachelor's degree in Kinesiology or related subjects (Physical Education, Sport Science, Exercise Physiology, etc.) at a CSU campus. This degree focuses on practical application of the science-based study of movement. Students who complete the degree will be able to demonstrate an understanding of how the body systems and structures work together to allow movement to occur.

Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU that does not accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Relate basic motor skills and patterns to concepts, theories, and methods common to Kinesiology.
2. Consider how the body systems and structures work together to allow movement to occur.
3. Assess measurements and types of movement to evaluate individual performance.
4. Enter a University level Kinesiology program.

The following is required for the Associate in Arts in Kinesiology for Transfer degree:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education — Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtaining of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better. A “P” (Pass).

ADTs also require that students must earn a C or better or “P” (Pass) in all courses required for the major or area of emphasis.

REQUIRED CORE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEC 108</td>
<td>Deep Water Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>PEC 168</td>
<td>Beginning Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PEC 169</td>
<td>Intermediate Swimming</td>
<td>1</td>
</tr>
</tbody>
</table>

MOVTION BASED COURSES - (MINIMUM 3) SELECT A MAXIMUM OF ONE (1) COURSE FROM ANY THREE (3) OF THE FOLLOWING AREAS FOR A MINIMUM OF THREE (3) UNITS.

AQUATICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEC 108</td>
<td>Deep Water Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>PEC 168</td>
<td>Beginning Swimming</td>
<td>1</td>
</tr>
<tr>
<td>PEC 169</td>
<td>Intermediate Swimming</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN THE A.A.-T MAJOR

40-49

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED

3-10

GENERAL EDUCATION (CSU-GE OR IGETC PATTERN UNITS)

37-39

Elective (CSU Transferable Units)

1-12

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE MAXIMUM

60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for the Associate in Arts in Kinesiology for Transfer degree.

A.A. DEGREE: KINESIOLOGY

(FORMERLY LISTED AS A.A. DEGREE: PHYSICAL EDUCATION)

The purpose of the Kinesiology major is to provide a general program of study that focuses on physical education, fitness, and sport. The program will develop the student’s understanding of how recreation, leisure activity, and sport impact individuals from a physical, sociological, and psychological perspective. Students will be introduced to exercise and nutrition guidelines, basic athletic injury prevention and treatment, organization of fitness and sport management programs, and emergency medical skills, including CPR.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Develop and implement safe, comprehensive physical activity protocols.
2. Demonstrate competence in the major concepts, theoretical perspectives, and current research dealing with physical activity and sport.
3. Identify and apply basic rules and strategies of various physical activities.

PROGRAM REQUIREMENTS

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.
REQUIRED COURSES - COMPLETE 15 UNITS

HE 101 [NP] Emergency Medical Response; CPR Pro/Healthcare Provider .......................... 3
PE 100 [NP] Introduction to Physical Education ................................................................. 3
PE 108 [NP] Care and Prevention of Athletic Injuries .......................................................... 3
PE 109 [NP] Exercise and Sport Psychology ................................................................. 3
PE 124 [NP] Introduction to Kinesiology ................................................................. 3

ELECTIVE COURSES - COMPLETE 6 UNITS

PE 101 [NP] Basketball Theory ......................................................................................... 2
PE 102 [NP] Offensive Football Theory ............................................................................ 2
PE 103 [NP] Track and Field Team Concepts .................................................................. 3
PE 104 [NP] Wrestling Theory .......................................................................................... 1
PE 105 [NP] Defensive Football Theory ........................................................................... 2
PE 106 [NP] Offensive Baseball Theory ........................................................................... 2
PE 107 [NP] Defensive Baseball Theory ........................................................................... 2
PE 108 [NP] Care and Prevention of Athletic Injuries ...................................................... 3
PE 110 [NP] Officiating: Spring Sports ............................................................................. 3
PE 111 [NP] Application of Sports Medicine .................................................................... 3
PE 113 [NP] Offensive/Defensive Softball Theory .............................................................. 2
PE 114 [NP] Cross Country Concepts .............................................................................. 2
PE 115 [NP] Officiating: Fall Sports .................................................................................. 3
PE 116 [NP] Football Team Play Concepts ....................................................................... 3
PE 120 [NP] Sports and Society ...................................................................................... 3
PE 121 [NP] Coaching Effectiveness ................................................................................. 3
PE 122 [NP] Adapted Physical Education Theory and Lab .................................................. 3
PE 126 [NP] Introduction to Sport Management ................................................................. 3
PE 130 [NP] Personal Trainer Health Fitness Instructor ................................................. 3
REC 110 [NP] Social Recreation Leadership ..................................................................... 3
HE 118 [NP] Exercise and Nutrition for Healthy Living ...................................................... 3

PE ACTIVITY CLASSES: COMPLETE 1-3 UNITS

DANCE 111 [NP] Modern Dance 1 ................................................................................... 1
DANCE 112 [NP] Modern Dance 2 ................................................................................... 1
DANCE 113 [NP] Modern Dance 3 ................................................................................... 1
DANCE 121 [NP] Ballet 1 ................................................................................................ 1
DANCE 122 [NP] Ballet 2 ................................................................................................ 1
DANCE 123 [NP] Ballet 3 ................................................................................................ 1
DANCE 124 [NP] Ballet 4 ................................................................................................ 1
DANCE 131 [NP] Jazz 1 ................................................................................................ 1
DANCE 132 [NP] Jazz 2 ................................................................................................ 1
DANCE 133 [NP] Jazz 3 Intermediate/Advanced .............................................................. 1
DANCE 141 [NP] Hip Hop ............................................................................................ 1
PEA 104 [NP] Adapted Strength Development .................................................................. 1
PEA 106 [NP] Functional Water Exercise ....................................................................... 1
PEA 107 [NP] Adapted Swimming .................................................................................... 1
PEA 108 [NP] Adapted Aquatics ...................................................................................... 1
PEA 119 [NP] Adapted Sports .......................................................................................... 1
PEC 102 [NP] Water Aerobics .......................................................................................... 1
PEC 108 [NP] Deep Water Aerobics ................................................................................. 1
PEC 128 [NP] Aerobics ................................................................................................ 1
PEC 131 [NP] Aerobics 2 ............................................................................................... 1
PEC 135 [NP] Springboard Diving ................................................................................... 1
PEC 140 [NP] Exercise for Fitness ................................................................................... 1
PEC 142 [NP] Exercise For Fitness 2 ............................................................................... 1
PEC 143 [NP] Beginning Golf .......................................................................................... 1
PEC 144 [NP] Intermediate Golf ..................................................................................... 1
PEC 145 [NP] Advanced Golf .......................................................................................... 1
PEC 147 [NP] Gymnastics ............................................................................................... 1
PEC 148 [NP] Yoga for Better Health .............................................................................. 1
PEC 157 [NP] Advanced Judo ......................................................................................... 1
PEC 159 [NP] Fall Spirit Leadership Training .................................................................... 2
PEC 160 [NP] Spring Spirit Leadership Training .............................................................. 1
PEC 162 [NP] Aikido ........................................................................................................ 1
PEC 163 [NP] Aikido 2 Intermediate ............................................................ 1
PEC 164 [NP] Self Defense .............................................................................................. 1
PEC 165 [NP] Judo ........................................................................................................ 1
PEC 168 [NP] Beginning Swimming ............................................................................... 1
PEC 169 [NP] Intermediate Swimming .......................................................................... 1
PEC 170 [NP] Advanced Swimming .............................................................................. 1
PEC 171 [NP] Swim for Fitness ........................................................................................ 1
PEC 175 [NP] Beginning Tennis ...................................................................................... 1
PEC 176 [NP] Intermediate Tennis .................................................................................. 1
PEC 177 [NP] Advanced Tennis ...................................................................................... 1
PEC 178 [NP] Tournament Tennis ................................................................................. 1
PEC 179 [NP] Track and Field .......................................................................................... 1
PEC 182 [NP] Training for Distance Running ................................................................. 1
PEC 183 [NP] Volleyball ................................................................................................. 1
PEC 184 [NP] Power Volleyball ...................................................................................... 1
PEC 186 [NP] Intermediate Volleyball ............................................................................ 1
PEC 187 [NP] Pilates for Fitness ...................................................................................... 1
PEC 190 [NP] Advanced Water Polo .............................................................................. 1
PEC 191 [NP] Power Lifting ............................................................................................ 1
PEC 192 [NP] Pilates 2 ................................................................................................ 1
PEC 195 [NP] Weight Training ........................................................................................ 1
PEC 197 [NP] Advanced Weight Training ........................................................................ 1
PEM 108 [NP] Baseball .................................................................................................. 1
PEM 112 [NP] Beginning Basketball ................................................................................ 1
PEM 113 [NP] Intermediate Basketball ......................................................................... 1
PEM 114 [NP] Advanced Basketball ............................................................................... 1
PEM 140 [NP] Touch Football and Kanaki ...................................................................... 1
PEM 141X_A [NP] Advanced Touch Football ............................................................... 0.5, 1
PEM 162 [NP] Soccer ................................................................................................ 1
PEM 163 [NP] Soccer 2 ................................................................................................ 1
PEM 165 [NP] Soccer 3 ................................................................................................ 1
PEM 196 [NP] Advanced Wrestling ................................................................................ 1
PEVM 100 [NP] Varsity Baseball ................................................................................... 3
PEVM 105 [NP] Men's Varsity Basketball (Fall) ................................................................. 2
PEVM 106 [NP] Men's Varsity Basketball (Spring) ............................................................ 1
PEVM 110 [NP] Men's Varsity Cross-Country ................................................................ 3
PEVM 115 [NP] Varsity Football ..................................................................................... 3
PEVM 120 [NP] Men's Varsity Golf .................................................................................. 3
PEVM 122 [NP] Men's Varsity Soccer .......................................................................... 3
PEVM 125 [NP] Men's Varsity Swimming and Diving ...................................................... 3
PEVM 130 [NP] Men's Varsity Tennis .......................................................................... 3
PEVM 135 [NP] Men's Varsity Track and Field ................................................................ 3
PEVM 140 [NP] Men's Varsity Water Polo ...................................................................... 3
PEVM 145 [NP] Varsity Wrestling .................................................................................... 3
PEVM 147XABC [NP] Training and Conditioning for Athletics ....................................... 0.5 - 3
PEVM 100 [NP] Women's Varsity Basketball (Fall) ........................................................... 2
PEVM 101 [NP] Women's Varsity Basketball (Spring) ...................................................... 1
PEVM 102XABC [NP] Training and Conditioning for Basketball .................................... 0.5 - 3
PEVM 103 [NP] Women's Varsity Cross-Country ............................................................ 3
PEVM 104XABC [NP] Training and Conditioning for Cross Country ............................... 0.5 - 3
PEVM 115 [NP] Women's Varsity Golf .......................................................................... 3
PEVM 116XABC [NP] Training and Conditioning for Football ........................................ 0.5 - 3
PEVM 120 [NP] Women's Varsity Softball ................................................................... 3
PEVM 121XABC [NP] Training and Conditioning for Softball ....................................... 0.5 - 3
PEVM 123 [NP] Women's Varsity Soccer ...................................................................... 3
PEVM 124XABC [NP] Training and Conditioning for Soccer .......................................... 0.5 - 3
PEVM 125 [NP] Women's Varsity Swimming and Diving ............................................... 3
PEVM 130 [NP] Women's Varsity Tennis ........................................................................ 3
PEVM 135 [NP] Women's Varsity Track and Field ........................................................... 3
PEVM 136XABC [NP] Training and Conditioning for Track and Field ............................. 0.5 - 3
PEVM 140 [NP] Women's Varsity Volleyball ................................................................ 3
PEVM 141XABC [NP] Training and Conditioning for Volleyball ..................................... 0.5 - 3
PEVM 145 [NP] Women's Varsity Water Polo ................................................................. 3
PEVM 147XABC [NP] Training and Conditioning for Athletics ....................................... 0.5 - 3
A.S.-T DEGREE: PHYSICS

The Associate in Science in Physics for Transfer (A.S.-T in Physics) degree includes lower division coursework that is required for transfer. This program is designed to prepare students who wish to transfer to a California State University campus to complete a bachelor's degree in physics, physics education or a related field of study. It will educate the student in applying the scientific method to collect and analyze data in forming conclusions, to verify physical principles through measurement and experimentation, to solve problems and to predict outcomes in nature using physical laws, and to state and apply physical concepts to explain phenomena encountered in our everyday world.

The Associate in Science in Physics for Transfer (A.S.-T in Physics) is intended for students who plan to complete a bachelor's degree in Physics at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Science in Physics for Transfer (A.S.-T in Physics) may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Use the Scientific Method to collect and analyze data in forming conclusions and to verify physical principles through measurement and experimentation.
2. Solve problems and predict outcomes in nature using physical laws.
3. State and apply physical concepts to explain phenomena encountered in our everyday world.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER (A.S.-T IN PHYSICS) DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   a. (A) The California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
   b. A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.

*ADTs also require that students must earn a C or better or a “P” (Pass) in all courses required for the major or area of emphasis.

REQUIRED COURSES – COMPLETE 24 UNITS

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PHYS 101</td>
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</tr>
<tr>
<td>PHYS 102</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 103</td>
<td>4</td>
</tr>
<tr>
<td>MATH 171</td>
<td>4</td>
</tr>
<tr>
<td>MATH 172</td>
<td>4</td>
</tr>
<tr>
<td>MATH 173</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN THE A.S.-T MAJOR ......................................................... 24

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ........................................ 7

GENERAL EDUCATION (CSU-GE OR IGETC PATTERN UNITS) ............................. 37-39

ELECTIVE (CSU TRANSFERABLE UNITS) .................................................... 4-6

TOTAL UNITS REQUIRED FOR A.S.-T DEGREE ........................................ 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

Plant Science

A.S. DEGREE: CROP SCIENCE

The student acquires skills in production of the common row and field crops grown in the Central Valley. Specific skills are emphasized in seedbed preparation, planting, fertilizing, weed control, pest management, harvesting, and marketing. Training leads to farming as well as employment in allied businesses such as fertilizer or agricultural chemical companies, seed companies, processing companies, and other related industries. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Employ the scientific method to solve problems in the laboratory and in the field.
2. Practice safe work habits in an employment setting, including handling and storage of hazardous materials.
3. Demonstrate sufficient mastery of general plant science skills for technical employment in the plant science management industry (agronomy, pomology, viticulture and enology, or oleiculture.)
4. Apply the principles of ecology, soil science, and plant science to crop management problems.
5. Develop integrated pest management programs for specific crops.

MAJOR REQUIREMENTS
To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS
AG 115 * [1] Introduction to Agricultural Education & Careers .......................... 1
AG 249 ** [4] Agriculture Internship ............................................................... 2
AG 259A-D** [NP] Agricultural Work Experience ........................................ 1 - 4

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS
ANSC 200 [NP] Introduction to Animal Science ............................................. 3
NR 200 [NP] Soils ......................................................................................... 3
AGM 200 [NP] Introduction to Mechanical Technology ............................... 3
AGEC 225 [NP] Agriculture Computer Applications ...................................... 3 OR
AGEC 210 [NP] Elements of Agricultural Economics .................................... 3 OR
AGEC 200 [NP] Agricultural Accounting and Analysis ................................ 3

III. AGRICULTURE MAJOR COURSES - COMPLETE 9 UNITS
PLSC 200 [NP] Introduction to Plant Science .................................................. 3
PLSC 205 [NP] Field Crops ......................................................................... 3
PLSC 215 [NP] Vegetable Crops .................................................................. 3
PLSC 250 [NP] Plant Nutrition and Fertilizer ................................................. 3

IV. AGRICULTURE MAJOR ELECTIVES - COMPLETE 6 UNITS
PLSC 255 [NP] Plant Pest Control ................................................................. 3
PLSC 260 [NP] Plant Disease Control ............................................................ 3
PLSC 280 [NP] Weed Control ..................................................................... 3
Any course not used in Area III .................................................................. 3

TOTAL UNITS .......................................................................................... 29

*Required
**Internship/Work Experience must be Agriculture related
Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259A-D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

A.S. DEGREE: FRUIT SCIENCE

The student will develop skills and knowledge in managing a horticultural fruit production operation. Training in this course includes practical horticultural skills such as propagation, pruning, thinning, planting, and management skills, such as supervision of labor, selecting insurance, credit, orchard planning, spray programs, and calendar of operation. The program also prepares students for transfer to a four-year college. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Apply general plant science skills for technical employment in the plant science management industry (botany, viticulture and enology).
2. Apply the principles of ecology, soil science, and plant science to pomology and viticulture management problems.
3. Develop integrated pest management programs for specific crops.

MAJOR REQUIREMENTS
To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS
AG 115 * [1] Introduction to Agricultural Education & Careers .......................... 1
AG 249 ** [4] Agriculture Internship ............................................................... 2
AG 259A-D** [NP] Agricultural Work Experience ........................................ 1 - 4

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS
ANSC 200 [NP] Introduction to Animal Science ............................................. 3
NR 200 [NP] Soils ......................................................................................... 3
AGM 200 [NP] Introduction to Mechanical Technology ............................... 3
AGEC 225 [NP] Agriculture Computer Applications ...................................... 3 OR
AGEC 210 [NP] Elements of Agricultural Economics .................................... 3 OR
AGEC 200 [NP] Agricultural Accounting and Analysis ................................ 3

III. AGRICULTURE MAJOR COURSES - COMPLETE 9 UNITS
COMPLETE 3 UNITS
PLSC 230 [NP] Fruit Science ................................................................. 3

COMPLETE 6 UNITS
PLSC 200 [NP] Introduction to Plant Science ............................................. 3
PLSC 241 [NP] Viticulture ............................................................................ 3
PLSC 255 [NP] Plant Pest Control ................................................................. 3

IV. AGRICULTURE MAJOR ELECTIVES - COMPLETE 6 UNITS
PLSC 235 [NP] Plant Propagation/Production ............................................ 3
PLSC 250 [NP] Plant Nutrition and Fertilizer ................................................. 3
PLSC 260 [NP] Plant Disease Control ............................................................ 3
PLSC 280 [NP] Weed Control ..................................................................... 3
Any course not used in Area III .................................................................. 3

TOTAL UNITS .......................................................................................... 29

*Required
**Internship/Work Experience must be Agriculture related
Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259A-D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

A.S. DEGREE: SOIL SCIENCE

In this program the student will develop skills and knowledge for entry-level employment in fields of soil and water management. These fields may include conservation, analysis, survey and farm management, as well as related fields such as range management, hydrology, irrigation, drainage, fertilization, and rural and urban planning. This program will also prepare the student for transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES
Upon satisfactory completion of this award, the student should be prepared to:
1. Employ the scientific method to solve problems in the laboratory and in the natural environment.
2. Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.
3. Employ environmental stewardship as an operational philosophy for resource management, public education of natural resources, and wildlife management.
MAJOR REQUIREMENTS

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 115 *</td>
<td>1</td>
</tr>
<tr>
<td>AG 249 **</td>
<td>4</td>
</tr>
<tr>
<td>AG 259A-D **NP</td>
<td>1-4</td>
</tr>
</tbody>
</table>

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 200</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 200</td>
<td>3</td>
</tr>
<tr>
<td>AGM 200</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 200</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 210</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 225</td>
<td>3</td>
</tr>
</tbody>
</table>

III. AGRICULTURE MAJOR COURSES - COMPLETE 9 UNITS

COMPLETE 3 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR 200</td>
<td>3</td>
</tr>
</tbody>
</table>

COMPLETE 6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 235</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 250</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 230</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 205</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 241</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. AGRICULTURE MAJOR ELECTIVES - COMPLETE 5-6 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>NR 222</td>
<td>3</td>
</tr>
<tr>
<td>EHS 210</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 255</td>
<td>3</td>
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<tr>
<td>AGM 230</td>
<td>3</td>
</tr>
<tr>
<td>PLSC 260</td>
<td>3</td>
</tr>
<tr>
<td>AGEC 146</td>
<td>3</td>
</tr>
<tr>
<td>Any course not</td>
<td></td>
</tr>
<tr>
<td>already taken</td>
<td></td>
</tr>
<tr>
<td>in Area III</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL UNITS ................................................................. 28-29

*Required
**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 259D, or a combination of AG 259A-C, or a combination of AG 249 and AG 259A-B.

Political Science

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>(209) 575-6129</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.A.-T DEGREE: POLITICAL SCIENCE</td>
<td></td>
</tr>
</tbody>
</table>

Political Science is a practical liberal arts major. Students who pursue the Associate in Arts in Political Science for Transfer (AA-T in Political Science) degree will analyze politics and government at the local, state, national, and global levels. Students will also acquire substantive knowledge of American Politics, Political Theory, Comparative Politics, and International Relations. The study of Political Science provides students with the opportunity to explore how individuals can make a difference in their political communities. The Associate in Arts in Political Science for Transfer (AA-T in Political Science) degree is intended for students who plan to complete a bachelor's degree in Political Science at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER (AA-T IN POLITICAL SCIENCE) DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better or "P" (Pass).

Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Use critical and creative thinking to address major political problems.
2. Analyze key concepts and important theories in political science.
3. Effectively search for, interpret, and critique political science literature.
4. Formulate and communicate thoughtful opinions about governmental systems, political institutions, laws, and public policies.

PROGRAM REQUIREMENTS

To earn an Associate in Arts for Transfer Degree in this major, the student must complete the requirements detailed in the Transfer Curriculum Pathway which includes completion of the requirements below:

REQUIRED CORE: (3 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLSC 101</td>
<td>3</td>
</tr>
</tbody>
</table>

American Politics
The Professional Selling Certificate program concerns itself with the activities that take place in the sale and distribution of goods and services in a world economy. It includes such areas of creative selling as marketing and business communication. Professional Selling is an important part of the marketing process. The salesperson must be able to interpret product and service features in terms of benefits and advantages to the consumer, and to then persuade the buyer to select that product or service. In the Professional Selling Program, the student is trained for entry-level jobs in sales.

**CERTIFICATE OF ACHIEVEMENT: PROFESSIONAL SELLING**

The Professional Selling Certificate program concerns itself with the activities that take place in the sale and distribution of goods and services in a world economy. It includes such areas of creative selling as marketing and business communication. Professional Selling is an important part of the marketing process. The salesperson must be able to interpret product and service features in terms of benefits and advantages to the consumer, and to then persuade the buyer to select that product or service while recognizing the ethical issues that apply to the professional selling environment. In the Professional Selling Program, the student is trained for entry-level jobs in sales.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the professional selling environment.
2. Obtain employment in an entry-level sales position.
3. Apply communication strategies for various audiences and contexts.

- Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. Interested students should consult Business Administration faculty advisors.

**REQUIRED COURSES - COMPLETE 21 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>BUSAD 210</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 245</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 358</td>
<td>Advertising &amp; Sales Promotion</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>Human Relations in Business</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 50</td>
<td>Business Computations</td>
<td>3</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>Principles of Management</td>
<td>3 OR</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT................................. 21**

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**Psychology**

**PROGRAM**

(209) 575-6129

This program is designed to prepare students who wish to transfer to a CSU and major in Psychology. This program will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Psychology. Courses such as general psychology, research methods in psychology, and introduction to neuroscience will enable the student to demonstrate ability to engage in critical thinking.

The following is required for the Associate in Arts in Psychology for Transfer degree (AA-T in Psychology):

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   
   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education — Breadth Requirements.
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a “C” or better. A “P” (Pass) grade is not an acceptable grade for courses in the major.

---

**A.A.-T DEGREE: PSYCHOLOGY**

This program is designed to prepare students who wish to transfer to a CSU and major in Psychology. This program will provide students with an alignment of courses required for transfer and a cohesive group of courses in the area of Psychology. Courses such as general psychology, research methods in psychology, and introduction to neuroscience will enable the student to demonstrate ability to engage in critical thinking.

The following is required for the Associate in Arts in Psychology for Transfer degree (AA-T in Psychology):

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   
   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education — Breadth Requirements.
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a “C” or better. A “P” (Pass) grade is not an acceptable grade for courses in the major.
PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Understand and apply psychological principles to personal, social, and organizational issues.
3. Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.
4. Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.

PROGRAM REQUIREMENTS

* To receive an Associate of Arts for transfer degree in Psychology, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway. All courses must be completed with a C or better or "P" (Pass).

** REQUIRED: (10 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 134</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 102</td>
<td>Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**LIST A: SELECT ONE (3-4 UNITS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>Biological Principles</td>
<td>4 OR</td>
</tr>
<tr>
<td>BIO 111</td>
<td>General Biology</td>
<td>4 OR</td>
</tr>
<tr>
<td>BIO 116</td>
<td>Biology: A Human Perspective</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 103</td>
<td>Introduction to Neuroscience</td>
<td>3</td>
</tr>
</tbody>
</table>

**LIST B: SELECT ONE**

Any List A course not already used | 3 |
| PSYCH 104 | Introduction to Social Psychology | 3 |
| PSYCH 141 | Human Lifespan Development | 3 |

**LIST C: SELECT ONE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 105</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 110</td>
<td>Human Sexualities</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 111</td>
<td>Psychology of Gender</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 118</td>
<td>Drugs and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 130</td>
<td>Personal Adjustment</td>
<td>3</td>
</tr>
</tbody>
</table>

Any List A or B course not already used | 3 |

**TOTAL UNITS IN THE A.A.-T MAJOR** | 19-21 |

**TOTAL UNITS THAT MAY BE DOUBLE-COUNTED** | 15-18 |

**GENERAL EDUCATION (CSU-GE OR IGETC) UNITS** | 37-39 |

**ELECTIVE (CSU TRANSFERABLE) UNITS** | 17-20 |

**TOTAL UNITS FOR A.A.-T DEGREE (MAXIMUM)** | 60 |

*Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.
PROGRAM REQUIREMENTS

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMSR 142</td>
<td>Introduction to Psychosocial Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 143</td>
<td>Psychosocial Rehabilitation Practice</td>
<td>3</td>
</tr>
<tr>
<td>HUMSR 144</td>
<td>Human Services Practicum</td>
<td>1</td>
</tr>
<tr>
<td>HUMSR 145AB</td>
<td>Community Agency Practicum</td>
<td>1-4</td>
</tr>
<tr>
<td>HUMSR 146</td>
<td>Psychosocial Rehabilitation with Children/Families</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD .............................................. 9

REAL ESTATE

PROGRAM (209) 575-6129

The Real Estate Program is designed to provide the skills necessary for salespersons and other workers in the real estate field. Courses cover principles and practices of real estate, sales, financing, appraisal, escrow, and legal aspects of real estate. The courses fulfill the state education requirements for the salesperson and/or brokers licensing exams. For additional information on real estate licensing requirements, students should visit the California Bureau of Real Estate at http://www.bre.ca.gov/. Classes are also designed to upgrade the skills of persons already working in the real estate or escrow field(s).

A.S. DEGREE: REAL ESTATE

The Real Estate Program is designed to provide the skills necessary for salespersons and other workers in the real estate field. Courses cover principles and practices of real estate, sales, financing, appraisal, escrow, and legal aspects of real estate. The courses fulfill the state education requirements for the salesperson and/or brokers licensing exams. For additional information on real estate licensing requirements, students should visit the California Bureau of Real Estate at http://www.bre.ca.gov/. Classes are also designed to upgrade the skills of persons already working in the real estate or escrow field(s).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Identify and use common California real estate practices and basic real estate terminology.
2. Meet the education requirement for the basic California real estate agent’s and/or salesperson’s license exam.

To earn an Associate in Science degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework. Degrees are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. The A.S. in Real Estate includes coursework which fulfills the education requirements for both the California State Real Estate Salesperson and Brokers License Exams. Other licensing requirements can be found at the California Bureau of Real Estate web site at http://www.bre.ca.gov/. Interested students should consult Business Administration faculty advisors.

REQUIRED COURSES - COMPLETE 26 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLES 380</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RLES 381</td>
<td>Real Estate Practices</td>
<td>3</td>
</tr>
<tr>
<td>RLES 382</td>
<td>Legal Aspects of Real Estate 1</td>
<td>3</td>
</tr>
<tr>
<td>RLES 384</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RLES 385</td>
<td>Real Estate Appraisal, Residential</td>
<td>3</td>
</tr>
<tr>
<td>RLES 392</td>
<td>Basic Escrow Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR ........................................................................... 26

CERTIFICATE OF ACHIEVEMENT: REAL ESTATE BROKER

The Real Estate Program is designed to provide the skills necessary for salespersons and other workers in the real estate field. Courses cover principles and practices of real estate, sales, financing, appraisal, escrow, and legal aspects of real estate. The courses fulfill the state education requirements for the salesperson and/or brokers licensing exams. For additional information on real estate licensing requirements, students should visit the California Bureau of Real Estate at http://www.bre.ca.gov/. Classes are also designed to upgrade the skills of persons already working in the real estate or escrow field(s).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Recognize and analyze ethical issues as they apply to the real estate environment.
2. Obtain employment in an entry-level position in the real estate field.
3. Identify and use common California real estate practices and basic real estate terminology.
4. Meet the education requirement for the basic California real estate agent’s and/or salesperson’s license exam.

- Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. The Real Estate Certificate includes coursework which fulfills the education requirements for the California State Real Estate Brokers License Exam. Other licensing requirements can be found at the California Bureau of Real Estate web site at http://www.bre.ca.gov/. Interested students should consult Business Administration faculty advisors.

REQUIRED COURSES - COMPLETE 26 UNITS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLES 380</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RLES 381</td>
<td>Real Estate Practices</td>
<td>3</td>
</tr>
<tr>
<td>RLES 382</td>
<td>Legal Aspects of Real Estate 1</td>
<td>3</td>
</tr>
<tr>
<td>RLES 384</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RLES 385</td>
<td>Real Estate Appraisal, Residential</td>
<td>3</td>
</tr>
<tr>
<td>RLES 392</td>
<td>Basic Escrow Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 201</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD.................................. 26
**SKILLS RECOGNITION: REAL ESTATE SALESPERSON**

The Real Estate Program is designed to provide the skills necessary for salespersons and other workers in the real estate field. Courses cover principles and practices of real estate, sales, financing, appraisal, escrow, and legal aspects of real estate. The courses fulfill the state education requirements for the salesperson and/or brokers licensing exams. For additional information on real estate licensing requirements, students should visit the California Bureau of Real Estate at [http://www.bre.ca.gov/](http://www.bre.ca.gov/). Classes are also designed to upgrade the skills of persons already working in the real estate or escrow field(s).

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the real estate environment.
2. Identify and use common California real estate practices and basic real estate terminology.
3. Meet the education requirement for the basic California real estate salesperson’s license exam.

**PROGRAM REQUIREMENTS**

* Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. The Real Estate Skills Recognition Certificate includes coursework which fulfills the education requirements for the California State Real Estate Salesperson License Exam. Other licensing requirements can be found at the California Bureau of Real Estate web site at [http://www.bre.ca.gov/](http://www.bre.ca.gov/). Interested students should consult Business Administration faculty advisors.

**REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLES 380</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RLES 381</td>
<td>Real Estate Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE ONE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLES 382</td>
<td>Legal Aspects of Real Estate 1</td>
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<td>Real Estate Finance</td>
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<td>Real Estate Appraisal, Residential</td>
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<td>4</td>
</tr>
<tr>
<td>BUSAD 218</td>
<td>Business Law</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD**

9 - 10

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**SKILLS RECOGNITION: RECORDING ARTS**

**PROGRAM ARTS**

(209) 575-6081

The Recording Arts Program at Modesto Junior College provides students the technical and musical skills to meet the challenges of today’s ever changing field of modern music production. The program is designed for students who wish to pursue a career in the Sound Engineering, Sound Design, Music Production, Live Sound, Music Sales and Music Composition for Radio, TV, Film, and Video. The topics include recording studio techniques, live sound engineering, music production, sound design, synthesizers, music technology, music notation and music composition. Opportunities for hands on recording sessions, live sound mixing, original music composition and performance in concert are provided.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate effective use of current music technology as applied to recording and music production.
2. Record, mix and master an acoustic music group with multiple tracks and microphones, burn the work to a CD and present the work as a complete project.
3. Demonstrate the ability to select and correctly place microphones for sound capture.
4. Identify elements of sound and acoustics.

**PROGRAM REQUIREMENTS**

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - COMPLETE 12 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 111</td>
<td>Recording Arts 1</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 112</td>
<td>Recording Arts 2</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 126</td>
<td>Introduction to Music Technology</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 121</td>
<td>Electronic Music 1</td>
<td>2</td>
</tr>
<tr>
<td>MUSG 111</td>
<td>Introduction to American Popular Music</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE 5 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 122</td>
<td>Electronic Music 2</td>
<td>2</td>
</tr>
<tr>
<td>MUST 101</td>
<td>Music Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 121</td>
<td>Keyboard Skills 1</td>
<td>1</td>
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<tr>
<td>MUSG 707</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUSG 112</td>
<td>The Music of the Beatles</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD**

17
The MJC Respiratory Care Associate Degree Program is a two-year program designed to prepare students for entrance into the practice of Respiratory Care. Upon completion of the program, graduates are eligible to take the National Board of Respiratory Care Therapist Multiple Choice Examination and the Clinical Simulations Examination allowing them to practice respiratory care nationally. Graduates are also eligible to apply for licensure with the State of California through the Respiratory Care Board for California. The Respiratory Care Program of Modesto Junior College is accredited by the Commission on Accreditation for Respiratory Care (CoARC). The MJC Respiratory Care Program begins once a year in August. If you have questions about program information, contact Allied Health, 575-6362 or visit the Allied Health website at www.mjc.edu/alliedhealth and search Respiratory Care Program. For academic information on financial aid, call (209) 575-7700. Program expenses vary for each individual. The estimated cost of the Respiratory Care Program is $5000, approximately $2,500 per year, which includes enrollment and materials fees, health clearance, uniforms, books, and licensure examination. If you would like information on financial aid, call (209) 575-7700.

The MJC Respiratory Care Program begins once a year in August. If you have questions about program information, contact Allied Health, 575-6362 or visit the Allied Health website at www.mjc.edu/alliedhealth and search Respiratory Care Program. For academic advising, contact the Respiratory Care Program Director at 575-6388, the Director of Clinical Education at 575-6381, or the MJC Counseling Office at 575-6080. For information on the pilot Respiratory Care Baccalaureate Degree Program visit: http://www.mjc.edu/rcbachelors

ELIGIBILITY AND PREPARATION FOR THE RESPIRATORY CARE PROGRAM

- Admission To Modesto Junior College
- High School Graduation is highly recommended but is not required.
- Transcripts on File in MJC Enrollment Services All college transcripts must be submitted with the program application to Allied Health, prior to the program application deadline, unless the transcripts are already on file in the MJC Enrollment Services, Student Services Building 102, (209) 575-6853.

We will accept hand-carried transcripts that are in a sealed envelope with a school seal.

REQUIRED MATH COMPETENCY FOR ACCEPTANCE INTO THE RESPIRATORY CARE PROGRAM

- Eligibility for entrance into any 100-level MATH course through MJC Assessment process OR
- Score of 3, 4, or 5 on AP Exam: Calculus AB or Calculus BC or Statistics
- Completion of MATH 89 or 90 or higher level MATH course, or an equivalent course from another institution with a grade of C or better
- Score of 5 on IB Exam: Mathematics HL

Bachelor's degree holders are considered to have met this requirement.

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 150</td>
<td>Integrative Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>ANAT 125</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>PHYSO 101</td>
<td>Introductory Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 89</td>
<td>Intermediate Algebra for Non-STEM Majors</td>
<td>4</td>
</tr>
<tr>
<td>MATH 90</td>
<td>Intermediate Algebra for STEM Majors</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Composition and Reading</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 143</td>
<td>Introductory College Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MICRO 101</td>
<td>Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>

* The program prerequisites for the fall 2018 program will be changing. You should complete all of the non-respiratory care required courses and the additional associate degree requirements prior to applying to the program in February, 2018.

PROGRAM APPLICATION

Students who have met/completed the requirements above may submit a Respiratory Care Program application during the application period:

February 1-28

PROGRAMS OFFERED

Applications are available on the Allied Health website (www.mjc.edu/alliedhealth) during the application period only. Applications may be submitted electronically, in person, or mailed, but must be received in the Allied Health office or postmarked by the application deadline.

SELECTION PROCESS

In order to be fully qualified for admission, applicants must have completed the program prerequisites with a grade of C or better on transcript at the time of application. In the event that there are more qualified applicants than space available, a weighted lottery system will be employed. An applicant’s name will be entered an extra time for:

- MICROBIOLOGY - Satisfactory Completion of MICRO 101
- PSYCHOLOGY - Satisfactory completion of PSYCH 101
- SCIENCE GPA - A grade point average (GPA) for chemistry, anatomy, and physiology of 3.0 or better or a GPA for microbiology, chemistry, anatomy, and physiology of 2.75 or better.
- DEGREE REQUIREMENTS - Completion of the MJC General Education requirements or a bachelor’s degree
- PREVIOUSLY QUALIFIED APPLICANT - If during the past three application periods you were a wait-listed applicant who was not selected for the Respiratory Care Program, your name will be entered an additional time for each application period.

If the number of fully qualified applicants falls short of the number of available openings, provisionally qualified students will be eligible for admission. Students who have one or both of the prerequisites in progress at time of application may be provisionally qualified for acceptance into the program based upon completing the prerequisites with a grade of C or better. On a space available basis, applicants who have completed CHEM 143 with a C or better, but have not completed the AP 150 prerequisite may enroll in RSCR 220 and AP 150 in the spring and if they pass both courses with a grade of C or better, they will be officially accepted into the program at the end of spring semester and will then enroll in RSCR 230 in the summer.

ADDITIONAL REQUIREMENTS FOR ACCEPTED APPLICANTS ONLY

Accepted applications will receive information on the clinical clearance process outlined below.
PROGRAMS R: RESPIRATORY CARE

CLINICAL CLEARANCE

HEALTH CLEARANCE

- A medical history and physical examination completed by a physician, physician's assistant, or nurse practitioner within 6 months prior to program start date.
- The physical must state that the applicant does not have any health conditions that would create a hazard to self, employees, or patients.
- Documentation of required immunizations.
- A negative PPD skin test must be obtained. If a positive reaction is obtained, or has previously been obtained, a chest x-ray must be taken unless medically contraindicated.

BACKGROUND CHECK

All students participating in clinical assignments are required by acute care hospitals to complete a background check and be cleared by the clinical facilities in order to participate in the clinical experience.

DRUG SCREEN

All students participating in clinical assignments will be required to pass a drug screen.

BLS CERTIFICATION

The Respiratory Care Program will offer a Health Care Provider BLS class from the American Heart Association (AHA) for all accepted applicants. Students are required to purchase an AHA BLS for Healthcare textbook.

SCHOLASTIC REQUIREMENTS

- Continuation in the Respiratory Care Program is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course may, upon faculty approval, be repeated. A grade of C or better if required in order to qualify for a Certificate of Completion.

POLICY FOR IMPOSING PENALTIES FOR DENIAL OF LICENSURE

The law provides for denial of licensure for crimes or acts, which may in any way be related to patient care activities, i.e., sex crimes, drug crimes, alcohol or drug abuse, and crimes of violence. In such cases, it is the applicant's responsibility to present sufficient evidence of rehabilitation to the Respiratory Care Board of California prior to taking the licensure examination. If the above violations are only misdemeanors, an in-house review and penalty determination may be performed and fines, warning letters, and/or probation may be issued without denial of a license. The Respiratory Care Board of California will screen applicants individually. Any student considering a career as a Respiratory Therapist who might be denied licensure is advised to consult the Disciplinary Guidelines (California Code of Regulations, 1399.370) published by the Respiratory Care Board of California before entering the program. Further information on disciplinary guidelines may be obtained from:

Respiratory Care Board of California
3750 Rosin Court, Suite 100
Sacramento, CA 95834
(916) 999-2190
(866) 375-0836

PROGRAM ADVISORY

The program prerequisites for the fall 2018 program will be changing. You should complete all of the non-respiratory care required courses and additional associate degree requirements prior to applying to the Respiratory Care Program.

A.S. DEGREE: RESPIRATORY CARE

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Evaluate habits, interests, and attitudes which promote lifelong learning.
2. Demonstrate knowledge and clinical skill in Respiratory Care.
3. Competently perform all duties and functions which may be delegated to registered respiratory care practitioners in an ethical manner.
4. Successfully pass the National Board for Respiratory Care (NBRC) Therapist Multiple Choice Exam (TMCE) and Clinical Simulation (CSE) Exam as a Registered Respiratory Care Practitioner (RRT) and be eligible for licensure in the State of California.

REQUIRED COURSES (RESPIRATORY CARE)

| [FIRST SEMESTER] | RSCR 220 | Introduction to Respiratory Care | 5 |
| RSCR 230 | Clinical 1 | 1 |
| [SECOND SEMESTER] | RSCR 222 | Basic Cardiopulmonary Anatomy & Physiology | 3 |
| RSCR 224 | Respiratory Care Theory | 5 |
| RSCR 232 | Clinical 2 | 3.5 |
| [THIRD SEMESTER] | RSCR 240 | Advanced Cardiopulmonary Physiology | 4.5 |
| RSCR 242 | Critical Care Procedures | 4.5 |
| RSCR 250 | Clinical 3 | 3.5 |
| [SUMMER - FIRST SESSION] | RSCR 244 | Neonatal-Pediatric Respiratory Care | 2 |
| RSCR 251 | Neonatal and Pediatric Clinical Practice I | 0.5 |
| [SUMMER – SECOND SESSION] | RSCR 253 | Neonatal and Pediatric Clinical Practice II | 0.5 |
| [FOURTH SEMESTER] | RSCR 246 | Current Issues in Respiratory Care | 3 |
| RSCR 252 | Physician Rounds for Respiratory Care | 0.5 |
| RSCR 255 | Clinical 4 | 4.5 |
| RSCR 257 | Clinical Preceptorship | 2.5 |

TOTAL UNITS IN A.S. MAJOR: 43.5

To earn an Associate in Science degree in Respiratory Care, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) in addition to the Respiratory Care coursework. Consult with an advisor for selection of courses.

TOTAL UNITS REQUIRED IN A.S. DEGREE: 66.5-70.5

*The Health Education requirement has been waived for all Allied Health certificates and degrees.

* General education requirements for students planning to enroll in the Baccalaureate Degree Program should follow the CSU-GE or IGETC Transfer Pattern.
B.S. Degree: Respiratory Care

PROGRAM
(209) 575-6362

The MJC Respiratory Care Baccalaureate Degree Program is designed to increase the preparation and technical expertise of respiratory care practitioners. Program graduates will be prepared to serve in leadership roles, education roles, and case management roles related to patient care in the field of respiratory care. Students will acquire advanced knowledge and skills in neonatal, pediatric, and adult critical respiratory care; management skills in respiratory care settings; advanced clinical practice, teaching, and research skills to serve as members of multidisciplinary teams.

PROGRAM OVERVIEW

The MJC Respiratory Care Baccalaureate Degree Program will be delivered in an accelerated format. The required program courses (40 units), will be offered in an 8-week hybrid format with a combination of online and face-to-face classwork. Students will attend classes at MJC one night each week for the face-to-face portion of the course.

PROGRAM COSTS

Upper division courses for the baccalaureate degree will cost $130 per unit. An additional $217 per unit will be assessed for Non-California residents. The total estimated cost is approximately $10,000 less than a baccalaureate degree for a California resident from an average four-year university.

The MJC Respiratory Care Program begins once a year in the fall semester. If you have questions about the program, contact Allied Health, 575-6362 or visit the Respiratory Care Baccalaureate Program Degree website. For academic advising, contact the Respiratory Care Program Director at 575-6388, the Director of Clinical Education at 575-6381, or the MJC Counseling Office at 575-6080.

PROGRAM ELIGIBILITY REQUIREMENTS

- Admission to Modesto Junior College
- Possession of an associate degree
- Graduate of a CoARC accredited Respiratory Care Program
- Possession of a Registered Respiratory Therapist (RRT) credential
- Possession of a valid California Respiratory Care Practitioner (RCP) license
- Completion of the 39 required CSU-GE Transfer Pattern units
- (CSU-GE Certification)

Transcripts on File in MJC Enrollment Services: All college transcripts must be submitted to the Admissions and Records office, prior to the program application deadline, unless transcripts are already on file in the MJC Enrollment Services, Student Services Building 102, (209) 575-6853. We will accept hand-carried transcripts that are in a sealed envelope with a school seal.

DEGREE REQUIREMENTS

To receive a Bachelor of Science degree in Respiratory Care, students are required to complete a minimum of 120 units including 39 lower division CSU-GE transfer courses and 40 units of upper division coursework in respiratory care.

A statistics course (MATH 134 or SOCIO 105 or equivalent) is required to meet B.4. Mathematics and Quantitative Reasoning Capstone area of the CSU-GE Transfer Pattern.

Program participants are encouraged to take a statistics course before beginning the program.

PROGRAM LOWER DIVISION REQUIREMENTS

| Associate Degree in Respiratory Care | 43.5 units |

COMPLETION OF LOWER DIVISION COURSEWORK THAT LEADS TO A CO-ARC ACCREDITED ASSOCIATE DEGREE IN RESPIRATORY CARE

<table>
<thead>
<tr>
<th>General Education (CSU-GE)</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA A: English Language Communication and Critical Thinking</td>
<td>9</td>
</tr>
<tr>
<td>AREA B: Scientific Inquiry and Quantitative Reasoning</td>
<td>9</td>
</tr>
<tr>
<td>AREA C: Arts and Humanities</td>
<td>9</td>
</tr>
<tr>
<td>AREA D: Social Sciences</td>
<td>9</td>
</tr>
<tr>
<td>AREA E: Lifelong Understanding and Self-Development</td>
<td>3</td>
</tr>
</tbody>
</table>

*NOTE: Coursework completed at another educational institution will need to be verified by a CSU-GE certification completed by the College where coursework was completed.

PROGRAM UPPER DIVISION REQUIREMENTS

<table>
<thead>
<tr>
<th>Respiratory Care Major Coursework</th>
<th>40 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSCR 405: Healthcare Leadership and Operations Management I</td>
<td></td>
</tr>
<tr>
<td>RSCR 406: Healthcare Leadership and Operations Management II</td>
<td></td>
</tr>
<tr>
<td>RSCR 410: Critical Review of Healthcare Research</td>
<td></td>
</tr>
<tr>
<td>RSCR 415: Disease Management and Healthcare Promotion</td>
<td></td>
</tr>
<tr>
<td>RSCR 416: Education and Teaching Strategies</td>
<td></td>
</tr>
<tr>
<td>RSCR 420: Advanced Pharmacology and Critical Care</td>
<td></td>
</tr>
<tr>
<td>RSCR 421: Advanced Neonatal and Pediatric Critical Care</td>
<td></td>
</tr>
<tr>
<td>RSCR 425: Pulmonary Diagnostics, Rehabilitation and Sleep</td>
<td></td>
</tr>
<tr>
<td>RSCR 430: Capstone Research</td>
<td></td>
</tr>
</tbody>
</table>

General Education

| PSYCH 400: Stress, Illness, and Death | |
| SOCIO 400: Medical Sociology: Health and Diversity | |
| PHIL 400: Medical and Bioethics | |
| COMM 400: Organizational Behavior | |

PROGRAM APPLICATION

Applications are available on the Respiratory Care Baccalaureate Degree Program website during the application period only. Applications may be submitted online. If applicants are not currently MJC students, they must apply to the college. Information regarding the Respiratory Care Baccalaureate Degree Program is available on the program's website at http://www.mjc.edu/rcbachelors.

SELECTION PROCESS

One cohort of 40 students will be admitted into the program each fall semester. Program participants will be selected through a lottery system after review of applicant’s eligibility.

Scholastic Requirements

Continuation in the Respiratory Care Baccalaureate Degree Program is dependent upon completion of all courses with a C grade or better. If a student receives less than a C in any required course, that course must be repeated with a C or better in order to qualify for a Bachelor’s degree.

| B.S. DEGREE: RESPIRATORY CARE |

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this program, the student should be prepared to

1. Perform the duties and functions of an advanced practitioner in neonatal, pediatric, and adult critical care.
2. Meet program-defined criteria related to management, advanced clinical practice, teaching, research, professional service and other professional development metrics.
3. Participate as a multidisciplinary team member in patient education and disease management of acute and chronic illnesses.
4. Integrate professional and ethical behavior with enhanced communication skills required for practice within the diverse field of respiratory care.
5. Successfully pass professional credentialing exams including: Adult Critical Care Specialist, Neonatal and Pediatric Specialist, Asthma Educator (NAE), and the Registered Pulmonary Function Technician national board exams.

PROGRAM REQUIREMENTS

FALL SEMESTER
SOCIO 400 [1] Medical Sociology: Health and Diversity................................. 3
RSCR 415 [1] Disease Management and Healthcare Promotion........................ 3
RSCR 416 [1] Education and Teaching Strategies for Healthcare Professionals... 3

SPRING SEMESTER
COMM 400 [2] Organization Behavior .................................................. 3
RSCR 425 [2] Pulmonary Diagnostics, Rehabilitation, and Sleep................... 3

SUMMER SESSION
PHILO 400 [3] Medical and Bioethics ..................................................... 3

FALL SEMESTER
PSYCH 400 [4] Psychology of Stress, Illness, & Death............................... 3

TOTAL UNITS FOR B.S. IN RESPIRATORY CARE MAJOR.............................. 40
TOTAL UNITS FOR A.S. IN RESPIRATORY CARE MAJOR............................. 43.5
TOTAL UNITS FOR GENERAL EDUCATION CSU-GE .................................. 39
TOTAL DEGREE UNITS ............................................................................... 122.5

For more information on the pilot Respiratory Care Baccalaureate Degree Program visit:
http://www.mjc.edu/rcbachelors

Retail Management (WAFC) PROGRAM
(209) 575-6129

The Retail Management Certificate Program is designed for individuals who are interested in or are currently employed in the retail industry and seek advancement into a managerial position in that field. Course work includes: retail store management, information systems, business mathematics, workplace writing, accounting, human resource management, marketing and business communications. Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All certificate Required Courses must be passed with a “C” grade or better. Interested students should consult division advisors.

CERTIFICATE OF ACHIEVEMENT:

RETAIL MANAGEMENT (WAFC)

The Retail Management Certificate Program is designed for individuals who are interested in or are currently employed in the retail industry and seek advancement into a managerial position in that field. Course work includes: management, written and oral business communication, accounting, marketing, human relations and resource management, leadership, computer applications and retail management. The Retail Management Certificate is available to all students; however, individuals who are currently employed by a participating WAFC (Western Association of Food Chains) Retailer/Wholesaler are also eligible to receive a WAFC Retail Management Certificate from their employer. These students should contact the HR department of their employer and/or visit www.wafc.com for further details.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:
1. Recognize and analyze ethical issues as they apply to the retail selling environment.
2. Obtain employment in a retail management position.
3. Apply communication strategies for retail selling environment.

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of “C” or better. Interested students should consult Business Administration faculty advisors.

REQUIRED COURSES - COMPLETE 8 (OR 9) COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 240</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 245</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 274</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 277</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 285</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 286</td>
<td>3</td>
</tr>
<tr>
<td>BUSAD 287</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD............................25-28
Sociology
PROGRAM
(209) 575-6129

A.A.-T DEGREE: SOCIOLOGY

The Associate in Arts in Sociology for Transfer degree includes lower division coursework that is required for transfer. Sociology is the study of society and how individuals’ lives are shaped by the larger social structure. The Associate in Arts in Sociology for transfer will degree will provide foundational training for students in sociological concepts.

The program offers a diverse curriculum to provide students with the tools necessary to comprehend their social world, using sociological theory and methodology to focus on social structure and culture. The program includes courses that explore social institutions, social problems, race, ethnic relations and the family. The Associate in Arts in Sociology for Transfer degree is intended for students who plan to complete a bachelor’s degree in Sociology at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or Sociology. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or a university or college that is not part of the CSU System. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER DEGREE:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   A. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements (CSU-GE).
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

2. Obtainment of a minimum grade point average of 2.0.
   * All courses required for the major must be completed with a C or better or “P” (Pass).

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award the student will be able to:

1. Critically evaluate and apply theoretical concepts to specific sociological phenomenon.
2. Explain major sociological theories and relevant concepts.

PROGRAM REQUIREMENTS

To earn an Associate in Arts in Sociology for Transfer Degree, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway which include completion of the requirements below.

REQUIRED CORE - COMPLETE 10 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIO 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 102</td>
<td>Social Problems in the United States</td>
<td>3</td>
</tr>
<tr>
<td>MATH 134</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

LIST A: SELECT TWO (6 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SOCIO 125</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>Ethnicity and Culture in America</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 104</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

LIST B: SELECT ONE (3 UNITS)

Any course from List A not already used

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIO 154</td>
<td>African-American Cultures and Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 156</td>
<td>Mexican Culture in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOCC 105</td>
<td>Women’s Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN THE A.A.-T MAJOR........................................... 19

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED................................ 9-12

GENERAL EDUCATION (CSU-GE) OR IGETC PATTERN UNITS....................... 37-39

ELECTIVE (CSU TRANSFERABLE UNITS)........................................... 11-16

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE................................... 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

Spanish
PROGRAM
(209) 575-6159

The Department of Spanish offers various courses that provide students with the foundation for Spanish language study. Knowledge of Spanish is highly desirable in many fields, such as health, service, business, travel and interpreting. Beyond the immediate practical advantages of learning a foreign language, there is also the profound personal enrichment that comes from first-hand knowledge of other cultures. Students majoring in Spanish have the opportunity to become acquainted with the history, literature, and art of the Spanish-speaking world. Students are urged to discuss their plans with faculty and counselors regarding the specific lower-division requirements at the four-year colleges and universities they plan to attend.

A.A.-T DEGREE: SPANISH

The Associate in Arts in Spanish for Transfer degree includes lower division coursework that is required for transfer and the Department of Spanish offers various courses that provide students with the foundation for Spanish language study. Knowledge of Spanish is highly desirable in many fields, such as health, service industries, business, and interpreting. Beyond the immediate practical advantages of learning a foreign language, there is also the profound personal enrichment that comes from first-hand knowledge of other cultures. Students majoring in Spanish have the opportunity to become acquainted with the history, literature, and art of the Spanish-speaking world. Students are urged to discuss their plans with faculty and counselors regarding the specific lower-division requirements at the four-year colleges and universities they plan to attend.

The Associate in Arts in Spanish for Transfer degree is intended for students who plan to complete a bachelor’s degree in Spanish at a California State University campus. Students completing the Associate in Arts in Spanish for Transfer degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units.
after transfer to earn a bachelor's degree. The Associate in Arts in Spanish for Transfer degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

PROGRAM LEARNING OUTCOMES

Upon completion of the Associate in Arts in Spanish for Transfer (A.A.-T in Spanish) degree, students will be able to do the following:

1. Communicate orally in Spanish in real-life situations at an advanced high proficiency level.
2. Communicate in writing in Spanish at an advanced high proficiency level with minimal errors in grammar, spelling, and mechanics.
3. Read critically and write coherently about literature produced in Spanish.

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS FOR SPANISH FOR TRANSFER DEGREE:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Completion of a minimum grade point average of 2.0.

*All courses within the major must be completed with a C or better or “P” (Pass).

PROGRAM REQUIREMENTS

To earn an Associate in Arts in Spanish for Transfer Degree, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway which include completion of the requirements below.

REQUIRED COURSES - COMPLETE 18-20 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101</td>
<td>5</td>
<td>Spanish 1</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>5</td>
<td>Spanish 2</td>
</tr>
<tr>
<td>SPAN 103</td>
<td>4 OR</td>
<td>Spanish 3</td>
</tr>
<tr>
<td>SPAN 109</td>
<td>5</td>
<td>Spanish for Spanish Speakers 1</td>
</tr>
<tr>
<td>SPAN 104</td>
<td>4 OR</td>
<td>Spanish 4</td>
</tr>
<tr>
<td>SPAN 110</td>
<td>5</td>
<td>Spanish for Spanish Speakers 2</td>
</tr>
</tbody>
</table>

LIST A - SELECT ONE

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 112</td>
<td>3</td>
<td>Introduction to Chicano/a Literature</td>
</tr>
<tr>
<td>SPAN 173</td>
<td>3</td>
<td>Survey of Latin American Literature</td>
</tr>
<tr>
<td>ENGL 172</td>
<td>3</td>
<td>Intro to Chicano/a Literature</td>
</tr>
<tr>
<td>ENGL 173</td>
<td>3</td>
<td>Intro to Latin American Literature</td>
</tr>
<tr>
<td>HIST 125</td>
<td>3</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>HIST 145</td>
<td>3</td>
<td>History of Latin America</td>
</tr>
<tr>
<td>SOCIO 156</td>
<td>3</td>
<td>Mexican Culture in the United States</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.A.-T MAJOR ............................................... 21-23

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED ......................................................... 6-9

GENERAL EDUCATION (CSU-GE OR IGETC) UNITS ............................................... 37-39

ELECTIVE (CSU TRANSFERABLE) UNITS ................................................................. 4-11

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE ....................................................... 60

*Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

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Supervisory Management

PROGRAM

(209) 575-6129

The Supervisory Management Program is designed to prepare students for leadership responsibilities at the operating level in business, industry, and government. It also provides owners, managers, and other supervisory personnel with the opportunity to complete specific courses designed to develop management ability. Many of the courses are offered in the evening to accommodate working students who are interested in upgrading their skills.

A.S. DEGREE: SUPERVISORY MANAGEMENT

The Supervisory Management Program is designed to prepare students for leadership responsibilities at the operating level in business, industry, and government. It also provides owners, managers, and other supervisory personnel with the opportunity to complete specific courses designed to develop management ability. Many of the courses are offered in the evening to accommodate working students who are interested in upgrading their skills.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment in an entry-level supervisory position within industry and/ or government sectors.
3. Use appropriate and effective business communication skills.

To earn an Associate in Science degree, the student must complete the MJC Associate Degree Requirements in addition to the following coursework. Degrees are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a "C" grade or better. Interested students should consult Business Administration faculty advisors.

REQUIRED COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 201</td>
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<td>Financial Accounting</td>
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<tr>
<td>BUSAD 210</td>
<td>3</td>
<td>Business Communication</td>
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<tr>
<td>OFADM 304</td>
<td>3</td>
<td>Professional English for Business</td>
</tr>
<tr>
<td>BUSAD 240</td>
<td>3</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>BUSAD 245</td>
<td>3</td>
<td>Principles of Marketing</td>
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<tr>
<td>BUSAD 248</td>
<td>3</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>3</td>
<td>Human Relations in Business</td>
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</table>

ELECTIVE COURSES - COMPLETE 12-13 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 310</td>
<td>3 OR</td>
<td>Bookkeeping 1</td>
</tr>
<tr>
<td>BUSAD 203</td>
<td>3</td>
<td>Business Communication</td>
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<tr>
<td>OFADM 304</td>
<td>3</td>
<td>Professional English for Business</td>
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<tr>
<td>BUSAD 240</td>
<td>3</td>
<td>Principles of Management</td>
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<td>BUSAD 245</td>
<td>3</td>
<td>Principles of Marketing</td>
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<td>BUSAD 248</td>
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<td>Introduction to Business</td>
</tr>
<tr>
<td>BUSAD 377</td>
<td>3</td>
<td>Human Relations in Business</td>
</tr>
</tbody>
</table>

TOTAL UNITS IN A.S. MAJOR ........................................................................ 24-25
CERTIFICATE OF ACHIEVEMENT:
SUPERVISORY MANAGEMENT

The Supervisory Management Program is designed to prepare students for leadership responsibilities at the operating level in business, industry, and government. It also provides owners, managers, and other supervisory personnel with the opportunity to complete specific courses designed to develop management ability. Many of the courses offered in the evening to accommodate working students who are interested in upgrading their skills.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Recognize and analyze ethical issues as they apply to the business environment.
2. Obtain employment in an entry-level supervisory position within industry and/or government sectors.
3. Use appropriate and effective business communication skills.

PROGRAM REQUIREMENTS

- Certificates are awarded to students in recognition of completion of specified requirements, which indicate proficiency. All Required Courses must be passed with a “C” grade or better. Interested students should consult Business Administration faculty advisors.

REQUIRED COURSES - COMPLETE 12 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPR 106</td>
<td>[1]</td>
<td>Group &amp; Organizational Communication</td>
</tr>
<tr>
<td>SUPR 351</td>
<td>[1]</td>
<td>Elements of Supervision</td>
</tr>
<tr>
<td>SUPR 364</td>
<td>[1, 2]</td>
<td>Total Quality Management</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES - COMPLETE 9-10 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSAD 310</td>
<td>[1]</td>
<td>Bookkeeping</td>
</tr>
<tr>
<td>OFADM 304</td>
<td>[2]</td>
<td>Professional English for Business</td>
</tr>
<tr>
<td>BUSAD 248</td>
<td>[1]</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BUSAD 245</td>
<td>[2]</td>
<td>Principles of Marketing</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD: 21-22

A.A.-T DEGREE: THEATRE ARTS

ABOUT THIS DEGREE

The Associate in Arts in Theatre Arts for Transfer degree (AA-T) prepares students to transfer into the CSU system leading to a baccalaureate degree in Theatre Arts which can lead to careers in teaching, design, technical theatre, theatre management, professional performance, stage direction, stage management, etc. Please consult a counselor regarding specific course requirements for the transfer institution. Completion of the Associate in Arts in Theatre Arts for Transfer degree also provides guaranteed admission with junior status to the CSU system. Upon completion of the Associate in Arts in Theatre Arts for Transfer students will understand and be able to demonstrate the fundamental performance and technical production processes for the Theatre Arts, demonstrate knowledge of the historical and cultural dimensions of theatre and understand the interaction between script, actor and audience and the areas of scenery, lighting, sound and costume.

The Associate in Arts in Theatre Arts for Transfer degree is intended for students who plan to complete a bachelor's degree in Theatre Arts at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

The following is required for the Associate in Arts in Theatre Arts for Transfer:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
   - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Discuss theatre from an historical perspective.
2. Demonstrate time management, commitment, follow-through, and responsibility as each attribute is applied to achieving a common group goal.
3. Creatively analyze, critique, and interpret works of theatrical art.
4. Describe the racial, ethnic and cultural diversity of U.S. and world theatre.
5. Express creativity in the artistic process.

REQUIRED CORE: (9 UNITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THETR 100</td>
<td>[NP]</td>
<td>Introduction to Theatre Arts</td>
</tr>
<tr>
<td>THETR 160</td>
<td>[NP]</td>
<td>Fundamentals of Acting</td>
</tr>
<tr>
<td>THETR 190</td>
<td>[NP]</td>
<td>Theatre Production Workshop</td>
</tr>
<tr>
<td>THETR 133</td>
<td>[NP]</td>
<td>Rehearsal and Performance 1</td>
</tr>
<tr>
<td>THETR 134</td>
<td>[NP]</td>
<td>Rehearsal and Performance 2</td>
</tr>
<tr>
<td>THETR 135</td>
<td>[NP]</td>
<td>Rehearsal and Performance 3</td>
</tr>
</tbody>
</table>

The Theatre Program at MJC is designed to prepare students to work in professional or semiprofessional theatre situations or to transfer to four-year colleges and universities to pursue additional drama classes that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costume, directing, playwriting, lighting, makeup, oral interpretation, stage design, and children's theatre. The Theatre program provides students the opportunity to act in major productions.
The Theatre program provides students the opportunity to act in major productions. The program is designed to teach students the techniques of acting, costuming, directing, and to pursue additional drama classes that may include preparation for teaching theatre. The Theatre program is intended for students who plan to transfer to a four-year college or university should consult with a Theatre faculty advisor to ensure that all required transfer courses are completed.

**Rehearsal and Performance (Maximum 3 units) or Theatre Production Workshop (Maximum 3 units)**

**LIST A (SELECT THREE): 9 UNITS:**

**THEATRE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THETR 105</td>
<td>Introduction to Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THETR 114</td>
<td>Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THETR 161</td>
<td>Intermediate Acting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 174</td>
<td>Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THETR 175</td>
<td>Stage Costuming</td>
<td>3</td>
</tr>
<tr>
<td>THETR 182</td>
<td>Practical Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 190</td>
<td>Theatre Production Workshop</td>
<td>1 OR</td>
</tr>
<tr>
<td>THETR 133</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THETR 134</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THETR 135</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THETR 136</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
</tbody>
</table>

SELECT FROM REQUIRED CORE COURSES NOT ALREADY USED 3

**TOTAL UNITS REQUIRED IN A.A.-T MAJOR** 18

- UNITS REQUIRED FOR IGETC/CSU BREADTH 37-39
- CSU TRANSFERABLE ELECTIVES (AS NEEDED) 8-9
- DOUBLE-COUNTED UNITS 3-6

**TOTAL UNITS REQUIRED FOR A.A.-T DEGREE** 60

* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for the Associate in arts in Theatre Arts for Transfer degree.

**A.A. DEGREE: THEATRE**

The Theatre Program at MJC is designed to prepare students to work in professional or semi-professional theatre situations or to transfer to four-year colleges and universities to pursue additional drama classes that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costuming, directing, playwriting, lighting, makeup, oral interpretation, stage design, and children's theatre. The Theatre program provides students the opportunity to act in major productions.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Distinguish and describe different practices in World Theater based on history, culture, ethnicity and race.
2. Evaluate theater productions by describing the artistic and collaborative processes that were involved in the creation of the production.
3. Apply acting and technical skills to create a theatrical piece of art.

**PROGRAM REQUIREMENTS**

To earn an Associate in Arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway or the University Preparation Pathway which include completion of the requirements below. Students should consult with a Theatre faculty advisor for selection of elective Units. Students who plan to transfer to a four-year college or university should consult with a Theatre faculty advisor to ensure that all required transfer courses are completed.

**REQUIRED COURSES - COMPLETE 7 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THETR 100</td>
<td>Introduction to Theatre Arts</td>
<td>3</td>
</tr>
<tr>
<td>THETR 160</td>
<td>Fundamentals of Acting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 190</td>
<td>Theatre Production Workshop</td>
<td>1</td>
</tr>
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</table>

**ELECTIVE COURSES: GENERAL - COMPLETE 10 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>DANCE 102</td>
<td>Introduction to World Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 155</td>
<td>Fundamentals of Choreography</td>
<td>2</td>
</tr>
<tr>
<td>THETR 105</td>
<td>Introduction to Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THETR 122</td>
<td>Introduction to Readers' Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THETR 123</td>
<td>Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>THETR 124</td>
<td>Advanced Readers' Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THETR 133</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THETR 134</td>
<td>Rehearsal and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THETR 159</td>
<td>Rehearsal and Performance in Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THETR 161</td>
<td>Intermediate Acting</td>
<td>3</td>
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<tr>
<td>THETR 164</td>
<td>Improvisational Acting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 174</td>
<td>Stage Makeup</td>
<td>3</td>
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<tr>
<td>THETR 175</td>
<td>Stage Costuming</td>
<td>3</td>
</tr>
<tr>
<td>THETR 182</td>
<td>Practical Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 196</td>
<td>Stage Management</td>
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**ELECTIVE COURSES: MOVEMENT - COMPLETE 2 UNITS**

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<tbody>
<tr>
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<td>Modern Dance 1</td>
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<tr>
<td>DANCE 112</td>
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<td>DANCE 113</td>
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<td>DANCE 121</td>
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<td>DANCE 122</td>
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<tr>
<td>DANCE 124</td>
<td>Ballet 4</td>
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<tr>
<td>DANCE 131</td>
<td>Jazz 1</td>
<td>1</td>
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<tr>
<td>DANCE 132</td>
<td>Jazz 2</td>
<td>1</td>
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<tr>
<td>DANCE 133</td>
<td>Jazz 3 Intermediate/Advanced</td>
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<tr>
<td>DANCE 141</td>
<td>Hip Hop</td>
<td>1</td>
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<tr>
<td>DANCE 151</td>
<td>Movement for the Performing Artist</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.A. MAJOR** 19

**SKILLS RECOGNITION: DESIGN & TECHNICAL THEATRE**

The Theatre Program at MJC is designed to prepare students to work in professional or semi-professional theatre situations or to transfer to four-year colleges and universities to pursue additional drama classes that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costuming, directing, playwriting, lighting, makeup, oral interpretation, stage design, and children's theatre. The Theatre program provides students the opportunity to act in major productions.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Describe how theatre artists collaborate in order to create a theatrical production.
2. Analyze a script in terms of themes, plot, genre and mood as applied to scenery, costume and lighting planning and design.
3. Demonstrate how to safely use common lighting instruments and accessories in the course of lighting a dance concert or play.
4. Draw a basic makeup design for a face.
5. Demonstrate knowledge of stage and shop safety rules and safe working practices in an applied situation.
6. Organize the necessary paperwork and schedule to prepare and run rehearsals and performances.

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - COMPLETE 16 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THETR 100</td>
<td>Introduction to Theatre Arts</td>
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<tr>
<td>THETR 174</td>
<td>Stage Makeup</td>
<td>3</td>
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<tr>
<td>THETR 175</td>
<td>Stage Costuming</td>
<td>3</td>
</tr>
<tr>
<td>THETR 182</td>
<td>Practical Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 190</td>
<td>Theatre Production Workshop</td>
<td>1</td>
</tr>
<tr>
<td>THETR 196</td>
<td>Stage Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD** ...................................... 16

**SKILLS RECOGNITION: THEATRE PERFORMANCE**

The Theatre Program at MJC is designed to prepare students to work in professional or semi-professional theatre situations or to transfer to four-year colleges and universities to pursue additional drama classes that may include preparation for teaching theatre. The program is designed to teach students the techniques of acting, costuming, directing, playwriting, lighting, makeup, oral interpretation, stage design, and children's theatre. The Theatre Program provides students the opportunity to act in major productions.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Solve memorization and other problems of scene preparation.
2. Employ advanced acting techniques for character development, physical and vocal warm-ups and performance preparation.
3. Analyze a script verbally and/or in writing in terms of theme, character and motivational units.
4. Demonstrate the ability to improve a performance after receiving a critique from a director.

To earn a Skills Recognition Award, the student must complete the following coursework. Each course must be completed with a grade of C or better.

**REQUIRED COURSES - COMPLETE 6 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THETR 160</td>
<td>Fundamentals of Acting</td>
<td>3</td>
</tr>
<tr>
<td>THETR 161</td>
<td>Intermediate Acting</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES - COMPLETE 9 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 151</td>
<td>Movement for the Performing Artist</td>
<td>3</td>
</tr>
<tr>
<td>THETR 123</td>
<td>Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>THETR 133</td>
<td>Rehearsal and Performance 1</td>
<td>2</td>
</tr>
<tr>
<td>THETR 134</td>
<td>Rehearsal and Performance 2</td>
<td>2</td>
</tr>
<tr>
<td>THETR 164</td>
<td>Improvisational Acting</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS FOR SKILLS RECOGNITION AWARD** ...................................... 15

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**Welding**

**PROGRAM** (209) 575-6332

Student will be able to gas and arc weld in all positions as well as use gas and arc cutting equipment. Upon completion of the A.S. Degree in welding, the student will be employable in the trades or will be able to transfer to a state university for study in an industrial-related degree program.

**REQUIRED COMPETENCIES FOR ALL CERTIFICATES AND SKILLS RECOGNITIONS:**

All students who plan to earn a certificate must also meet the following competencies.

- MATH 19 or 20 (NP) Pre-algebra (C or better) ......................................................................... 4 or 5 OR
- Eligibility for MATH 29 or MATH 30 by MJC assessment process

**A.S. DEGREE: WELDING**

The Industrial Welding Program supports and maintains a training platform that focuses on the most common welding and sheet metal processes, certifications, and supporting technologies used in industry. The curriculum for the program is concentrated primarily on the Shielded Metal Arc, Gas Tungsten Arc, Gas Metal Arc, Flux Core Arc, Welding, Oxy-Acetylene Welding, Oxy-Acetylene and Plasma Cutting. The program's courses expose students to both hands-on, laboratory and lecture learning objectives.

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current welding industry safety and environmental regulations.
2. Perform welding operations in accordance with structural, manufacturing, and food processing industries' recognized and accepted practices.

To earn an Associate in Science degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 109) or the University Preparation Pathway (p. 103) which include completion of the requirements below.

**REQUIRED COMPETENCIES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 19 or 20 (NP)</td>
<td>Pre-algebra (C or better)..........................</td>
<td>4 or 5 OR</td>
</tr>
<tr>
<td>Eligibility for MATH 29 or MATH 30 by MJC assessment process</td>
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</table>

**REQUIRED COURSES – COMPLETE 30 UNITS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM 211</td>
<td>Advanced Agricultural Welding</td>
<td>3</td>
</tr>
<tr>
<td>MACH 301</td>
<td>Machine Shop 1</td>
<td>3</td>
</tr>
<tr>
<td>SM 331</td>
<td>Sheet Metal and Installation 1</td>
<td>3</td>
</tr>
<tr>
<td>SM 332</td>
<td>Sheet Metal and Installation 2</td>
<td>3</td>
</tr>
<tr>
<td>WELD 200</td>
<td>Arc &amp; Gas Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 204</td>
<td>Gas Metal Arc Welding(G.M.A.W) &amp; Flux Core Arc Welding (F.C.A.W)</td>
<td>3</td>
</tr>
<tr>
<td>WELD 206</td>
<td>Gas Tungsten Arc Welding(G.T.A.W.)</td>
<td>3</td>
</tr>
<tr>
<td>WELD 300</td>
<td>Intermediate Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 325</td>
<td>Design and Fabrication Processes</td>
<td>3</td>
</tr>
<tr>
<td>WELD 340</td>
<td>Pipe Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS IN A.S. MAJOR** ................................................................. 30
CERTIFICATE OF ACHIEVEMENT: Manufacturing Technology (Interdisciplinary)

The Industrial Welding Program supports and maintains a training platform that focuses on the most common welding and sheet metal processes, certifications, and supporting technologies used in industry. The curriculum for the program is concentrated primarily on the Shielded Metal Arc, Gas Tungsten Arc, Gas Metal Arc, Flux Core Arc Welding, Oxy-Acetylene Welding, Oxy-Acetylene and Plasma Cutting. The program’s courses expose students to both hands-on, laboratory and lecture learning objectives.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform the measuring and calculating of voltages, currents, and resistance in circuits and the wiring application of typical industrial equipment.
2. Demonstrate proper set-up of SMAW, GMAW, and GTAW equipment and perform typical welding procedures according to general manufacturing codes and standards.
3. Perform typical machining, grinding, and threading operations within acceptable tolerances of general manufacturing procedures.

PROGRAM REQUIREMENTS

To earn a certificate in this major, the student must complete the requirements below:

AGM 262 [NP] Hydraulics/Pneumatics ........................................... 3
ELTEC 208 [NP] Fundamentals of Electricity and Electronics ..................... 3
ELTEC 229 [NP] Commercial & Industrial Wiring .................................. 3
ELTEC 265 [NP] Troubleshooting Techniques .................................. 1
MACH 301 [NP] Machine Shop 1 .................................................. 3
MACH 302 [NP] Machine Shop 2 .................................................. 3
WELD 200 [NP] Arc & Gas Welding ............................................. 3
WELD 204 [NP] Gas Metal Arc Welding(G.M.A.W) & Flux Core Arc Welding (F.C.A.W) ............................................. 3
WELD 206 [NP] Gas Tungsten Arc Welding (G.T.A.W.) ...................... 3

TOTAL UNITS FOR CERTIFICATE OF ACHIEVEMENT AWARD ................ 25

SKILLS RECOGNITION: DESIGN & FABRICATION

The Industrial Welding Program supports and maintains a training platform that focuses on the most common welding and sheet metal processes, certifications, and supporting technologies used in industry. The curriculum for the program is concentrated primarily on the Shielded Metal Arc, Gas Tungsten Arc, Gas Metal Arc, Flux Core Arc Welding, Oxy-Acetylene Welding, Oxy-Acetylene and Plasma Cutting. The program’s courses expose students to both hands-on, laboratory and lecture learning objectives.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Develop and interpret various types of fabrication prints.
2. Develop and interpret weld and welding symbols.
3. Use the required welding and sheet metal equipment, perform typical metal fabrication operations.

PROGRAM REQUIREMENTS

To earn a Skills Recognition Award, the student must meet/complete the required competencies, and complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COMPETENCIES FOR SKILLS RECOGNITIONS

MATH 19 or 20 [NP] Pre-algebra (C or better) ........................................ 4 or 5 OR
Eligibility for MATH 29 or MATH 30 by MJC assessment process

REQUIRED COURSES - COMPLETE 12 UNITS

WELD 200 [1] Arc & Gas Welding ............................................. 3
SM 331 [1] Sheet Metal and Installation ..................................... 3

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ...................... 12

SKILLS RECOGNITION: GAS METAL ARC WELDING AND GAS TUNGSTEN ARC WELDING

The Industrial Welding Program supports and maintains a training platform that focuses on the most common welding and sheet metal processes, certifications, and supporting technologies used in industry. The curriculum for the program is concentrated primarily on the Shielded Metal Arc, Gas Tungsten Arc, Gas Metal Arc, Flux Core Arc Welding, Oxy-Acetylene Welding, Oxy-Acetylene and Plasma Cutting. The program’s courses expose students to both hands-on, laboratory and lecture learning objectives.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Select GTAW tungsten electrodes and GMAW/FCAW electrode wires required to complete typical welding procedures.
2. Make appropriate set up adjustments on GTAW/GMAW equipment required to complete typical welding procedures.
3. Fit up and prepare typical weld joint designs according to industry codes and standards.
4. Using GTAW/GMAW equipment, perform welding procedures and create welds that meet industry codes and standards.

PROGRAM REQUIREMENTS

To earn a Skills Recognition Award, the student must meet/complete the required competencies and complete the following coursework. Each course must be completed with a C or better.

REQUIRED COMPETENCIES FOR SKILLS RECOGNITIONS

MATH 19 or 20 [NP] Pre-algebra (C or better) ........................................ 4 or 5 OR
Eligibility for MATH 29 or MATH 30 by MJC assessment process

REQUIRED COURSES - COMPLETE 9 UNITS

WELD 200 [1] Arc & Gas Welding ............................................. 3

TOTAL UNITS FOR SKILLS RECOGNITION AWARD ...................... 9
SKILLS RECOGNITION: PIPE WELDING

The Industrial Welding Program supports and maintains a training platform that focuses on the most common welding and sheet metal processes, certifications, and supporting technologies used in industry. The curriculum for the program is concentrated primarily on the Shielded Metal Arc, Gas Tungsten Arc, Gas Metal Arc, Flux Core Arc Welding, Oxy-Acetylene Welding, Oxy-Acetylene and Plasma Cutting. The program’s courses expose students to both hands-on, laboratory and lecture learning objectives.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Identify and fit-up various pipe fittings and hangers.
2. Identify and select appropriate pipe hangers.
3. Calculate and fit up typical joint off-sets.
4. Perform typical welding procedures according to industry codes and standards using the SMAW process.

To earn a Skills Recognition Award, the student must meet/complete the required competencies, and complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COMPETENCIES

All students who plan to earn a skills recognition must also meet the following competencies.

MATH 19 or 20 [NP] Pre-algebra (C or better) ........................................... 4 or 5 OR
Eligibility for MATH 29 or MATH 30 by MJC assessment process

REQUIRED COURSES - COMPLETE 9 UNITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>WELD 200</td>
<td>Arc and Gas Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 300</td>
<td>Intermediate Welding</td>
<td>3</td>
</tr>
<tr>
<td>WELD 340</td>
<td>Pipe Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS FOR SKILLS RECOGNITION AWARD .................................. 9
MJC Courses
Medical Assisting Courses (MDAST)

MDAST 320—INTRODUCTION TO MEDICAL ASSISTING 3 UNITS
54 Lecture Hours
Formerly listed as: MDAST 320: Intro. to Medical Assisting
Corequisite: Concurrent enrollment in MDAST 322 and MDAST 323.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Orientation to the medical office and the role of the medical assistant. Professional relations and communications, ethics, and legal responsibilities; history of medicine and community health care facilities. Field trips may be required. (A-F Only) Lecture.

MDAST 321—MEDICAL TERMINOLOGY 3 UNITS
54 Lecture Hours
Emphasizing logical and rational understanding of word parts. Covers medical terms organized according to body systems, including fundamental understanding of basic anatomy, function, diseases, and surgeries of each body system. (A-F Only) Lecture.
Transfer: (CS OFTEC 50)

MDAST 322—MEDICAL ASSISTING ADMINISTRATIVE PROCEDURES 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Formerly listed as: MDAST 322: Medical Assisting Administrative Procedures
Corequisite: Concurrent enrollment in MDAST 320 and MDAST 323.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Medical Assisting Administrative procedures including financial record keeping, insurance claims, banking functions, payroll and medical records. Students receive training in completing the above procedures manually and by computer. Field trips may be required. (A-F Only) Lecture/Lab.

MDAST 323—MEDICAL ASSISTING CLINICAL PROCEDURES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Corequisite: Concurrent enrollment in MDAST 322 and MDAST 320.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Clinical medical assisting skills, which pertain to preparing the patient for examination and assisting patient and physician during patient examination and treatment. The assistant must anticipate the physician’s needs as to the type of examination, the specific equipment needed, and the extent of assistance required by the patient. This requires judgment based on a reasonable understanding of physical examinations, the methods and equipment used, and the related role of the medical assistant. Materials Fee Required. (A-F Only) Lecture/Lab.

MDAST 324—INTRODUCTION TO DISEASE AND PHARMACOLOGY 4 UNITS
63 Lecture Hours, 27 Lab Hours
Formerly listed as: MDAST 324: Intro to Diseases/Pharmacology
Prerequisite: Satisfactory completion of MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 323 and MDAST 326. Medical Terminology related to the human body in health and disease. Pathogenesis and discussion of representative diseases; signs and symptoms of many major diseases and basic drugs used in treatment. (A-F Only) Lecture/Lab.

MDAST 325—MEDICAL ASSISTING LABORATORY PROCEDURES 4 UNITS
54 Lecture Hours, 54 Lab Hours
Formerly listed as: MDAST 325: Lab Procedures
Prerequisite: Concurrent enrollment in MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 324 and MDAST 326.
Introduction to laboratory procedures necessary to aid the physician. Includes patient preparation for diagnostic studies, purposes, techniques, and recording of procedures commonly performed. Field trips may be required. (A-F Only) Lecture/Lab.

MDAST 326—MEDICAL ASSISTING PRACTICUM 7 UNITS
54 Lecture Hours, 270 Lab Hours
Formerly listed as: MDAST 326: Externship
Prerequisite: Satisfactory completion of MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 324 and MDAST 325.
Practicum portion of the program consists of two 8-week rotations in which students apply knowledge in performing administrative and clinical procedures. Students also receive training in taking the national certification exam and seeking employment. (A-F Only) Lecture/Lab.

Meteorology Courses (METEO)

METEO 161 INTRODUCTION TO METEOROLOGY 4 UNITS
54 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EASI 161 and satisfactorily complete ENTR 70.
Introduction to atmospheric structure, weather monitoring techniques, solar radiation, thermodynamics, air pressure, humidity, cloud formation, wind patterns, planetary circulation patterns, storms and severe weather (including thunderstorms, tornadoes, and hurricanes), and the causes and consequences of changes in climate and climate change. Lab activities emphasize gathering and analysis of meteorological data (both archived and real-time) to understand and predict weather events. Field trips may be required. (A-F or P/NP) Lecture/Lab. Transfer: (CSU, UC) General Education: (MIGE-A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

Microbiology Courses (MICRO)

MICRO 101—MICROBIOLOGY 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of BIO 116 or BIO 101 or BIO 111 and CHEM 141.
Includes the study of microorganisms, microbial metabolism, genetics, and varieties; immunity, infections, and antimicrobials. Intended mainly for student entering the health professions. Field trips may be required. (A-F or P/NP) Lecture/Lab. Transfer: (CSU, UC) (CC BIOL 65) General Education: (MIGE-A) (CSU-GE: B2, B3) (IGETC: 5B, 5C)

Programs, awards, and courses are listed in alphabetical order from A-Z. The awards listed under each program are listed by the type of award in this order: AST, AAT, AS, AA, CERT, SR.
ADJU (ADMINISTRATION OF JUSTICE)

ADJU 201—INTRODUCTION TO ADMINISTRATION OF JUSTICE 3 UNITS
54 Lecture Hours
Exploration of the history and philosophy of the administration of justice system in America including the intricate workings of the police, the courts and corrections systems. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, punishment, components of the system and the current challenges to the system. Students are introduced to the origins and development of criminal law, legal process and sentencing, incarceration policies and ethics in the administration of justice field. Field trips might be required. Not repeatable. Transfer: (CSU, UC) (C-ID: AJ 110) General Education: (MJC-GE: B) (CSU-GE: D8) (IGETC: 4H)

ADJU 202—PRINCIPLES/PROCEDURES OF JUSTICE SYSTEM 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.
This course provides an examination and analysis of due process in a criminal proceeding from initial contact with law enforcement through trial, sentencing and appeal utilizing statutory laws, state and constitutional law precedents, and the U.S. bill of rights. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: AJ 122) General Education: (MJC-GE: B)

ADJU 203—CONCEPTS OF CRIMINAL LAW 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201 and satisfactorily complete ADJU 202.
Historical development, philosophy of law and constitutional provisions: definitions, classification of crime and their application to administration of justice system; legal research, case law, methodology and concepts of law as a social force. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: AJ 120) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4J)

ADJU 204—LEGAL ASPECTS OF EVIDENCE 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201 and satisfactorily complete ADJU 202 and satisfactorily complete ADJU 203.
Origin, development, philosophy, and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds of degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU) (C-ID: AJ 124)

ADJU 205—COMMUNITY RELATIONS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.

Roles of administration of justice practitioners and agencies. Interrelationships and role expectations among the various agencies and the public. Principal emphasis on the professional image of administration of justice system and development of positive relationship between system members and the public. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ADJU 210—COMMUNICATIONS IN CRIMINAL JUSTICE 3 UNITS
54 Lecture Hours
Survey of the existing policies and principles affecting report writing in American criminal justice, emphasizing preparation, oral presentation and thoroughness necessary for judicial acceptance. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 212—CRIMINAL INVESTIGATION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.
Fundamentals of investigation, crime scene search and recording, collection and preservation of physical evidence, technology, modus operandi, sources of information, interviews and interrogation, follow-up and case preparation. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU) (C-ID: AJ 140)

ADJU 213—PATROL PROCEDURES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.
Responsibilities, techniques, and methods of police patrol. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 215—INTRODUCTION TO FIREARMS 3 UNITS
54 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who have submitted a Live Scan Application to the State of California Department of Justice for fingerprint clearance. This course is restricted under California Penal Code Section 12021, course requires handling and possessing of firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 12021.
Historical evolution, ownership evaluation, moral aspects, legal provisions, safety precautions and restrictions covering the use of firearms; demonstrate basic marksmanship and instruction in use of firearms. Students must provide own ammunition. The instructor reserves the right to remove a student from the firing range due to safety violation. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 216—ADVANCED FIREARMS AND RANGE APPLICATION 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ADJU 215.
Limitations on Enrollment: Enrollment limited to students who have submitted a Live Scan Application to the State of California Department of Justice for fingerprint clearance. This course is restricted under California Penal Code Section 12021, course requires handling and possessing of firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 12021.
Historical evolution, ownership evaluation, moral aspects, legal provisions, safety precautions and restrictions covering the use of firearms; demonstrate basic marksmanship and instruction in use of firearms. Students must provide own ammunition. The instructor reserves the right to remove a student from the firing range due to safety violation. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)
Penal Code Section 29800; course requires handling and possessing of firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 29800.

A continuation of ADJU 215. In-depth review of legal aspects of firearms. Tactical analysis and decision making skill building. Range firing of various weapons. Students must provide own ammunition. The instructor reserves the right to remove a student from the firing range due to a safety violation. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 217—SUBSTANCE ABUSE 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201 and satisfactorily complete ADJU 202.

Basic understanding of controlled substances, including identification, physiological effects, testing, and use detection, methods of enforcement and investigation, applicable laws controlling use, treatment processes, and prevention. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: B, E)(CSU-GE:E)

ADJU 219—CORRECTIONS FIREARMS TRAINING 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ADJU 215.

Limitation on Enrollment: Enrollment limited to students who have submitted a Live Scan Application to the State of California Department of Justice for fingerprint clearance. This course is restricted under California Penal Code Section 12021, course requires handling and possessing of firearms. Convicted felons, persons addicted to any narcotic or convicted of any offense involving the violent use of a firearm are not allowed to enroll in the course based on Penal Code Section 12021. Students are required to pass clearance from Dept. of Justice before they may legally handle firearms.

Laws, policies, and ethical considerations with specialized training and application in weaponry used by correctional agencies. Range firing of rifles, shotguns, and handguns. Students must provide their own ammunition. This course is restricted under state and federal laws. The instructor reserves the right to remove a student from the firing range due to a safety violation. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 222—PROFILE TERRORISM 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.

Discussion of prominent theories on terrorism with a focus on domestic and international terrorism threats, and fundamental security issues resulting from terrorism. Analysis of the social-historical origins of terrorism; criminal, legal, and social responses to terrorism; at-risk populations; prevention; and intervention strategies. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 232—JUVENILE JUSTICE PROCEDURES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201

History of juvenile court decisions in the United States. Theories of delinquency. Identify the differences between the adult and juvenile justice systems. Discussion of status offenses committed by children in contrast to juvenile delinquent acts. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU) (C-ID: AJ 220)

ADJU 234—CRIME CAUSATION 3 UNITS
54 Lecture Hours
Principal theories commonly utilized in identifying causes of criminality. Emphasis on evidence and logic of certain theoretical positions common to the field of criminology. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 235—INTRODUCTION TO CORRECTIONS 3 UNITS
54 Lecture Hours
Introduction to corrections is designed to give the student an understanding of the concepts of criminal parole, probation and the correctional system. The course covers historical development of correctional processes, current trends, and future directions of the correctional field. Students will examine local, state and federal correctional systems. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: AJ 200) General Education: (MJC-GE: B)

ADJU 236—CORRECTIONAL LAW 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 235.

Overview of the Constitutional provisions and definitions of laws relating to the corrections component of the Criminal Justice System. Emphasis on the legal aspects concerning adult offenders and correctional personnel within the Prison System. The laws will entail Federal, State, and Local jurisdictions. Field trips maybe required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 243—DOMESTIC VIOLENCE CRISIS INTERVENTION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.

Domestic violence as a pervasive and significant social issue requiring both prevention and intervention. Social-historical roots of family violence, criminal, legal, and social response to violence, at-risk populations, prevention, and intervention strategies. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ADJU 351—ELEMENTS OF SUPERVISION IN PUBLIC SAFETY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ADJU 201.

The nature of effective leadership and the functions of supervisors and managers in organizations, with an emphasis on organizations within the criminal justice system. The skills and techniques of effective leadership, management and supervision will be examined and applied in terms of attaining maximum results through teamwork and the cooperative efforts of others. Field trips are not required. Not repeatable. (A-F or P/NP)
AG (AGRICULTURE VOCATIONAL & TECHNICAL)

For degrees and certificates that can be earned in Agriculture: Vocational & Technical, see the Agriculture and Environmental Sciences Division on page 125. Vocational Agriculture courses are designed to prepare for occupational entry into skilled or semi-professional fields of agriculture. Technical Agriculture courses are designed to prepare for occupational entry into the technical fields of agriculture.

AG 101—LEADERSHIP IN AGRICULTURE B 2 UNITS
36 Lecture Hours
Formerly listed as: AG - 100AB: Leadership in Agriculture
Lecture and supervised activities relating to student participation in agricultural competitions, judging contests, livestock exhibitions, recruitment programs, award and scholarship applications, and youth activity planning. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) Local Requirement: (Activities)

AG 115—INTRODUCTION TO AGRICULTURAL EDUCATION & CAREERS 1 UNIT
18 Lecture Hours
Introduction to educational and agricultural employment opportunities. Includes portfolio and educational plan development and curriculum requirements that pertain to educational goals as they relate to agriculture majors. Assists students in setting goals and developing skills necessary for life-long success in obtaining, maintaining, and advancing in agriculture careers. Current events that impact agriculture and society will be discussed. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU) Local Requirement: (Guidance)

AG 120—INTRODUCTION TO AGRICULTURE EDUCATION 2 UNITS
36 Lecture Hours
Overview of agricultural education and agricultural education programs from a teaching perspective including goals and purposes, kinds of classes, types of programs, and qualifications essential to successful agriculture teaching. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

AG 130—AGRICULTURE EDUCATION EARLY FIELD EXPERIENCE 2 UNITS
18 Lecture Hours, 54 Lab Hours
Creates awareness of opportunities for prospective agriculture teachers through observation, participation in the field and through analysis of field experiences. Students will be expected to complete 20 Hours of observation/field activities. The off-campus activities shall be supervised by the course instructor and shall take place in an approved agriculture department. Field trips required. (A-F Only). Not repeatable. Transfer: (CSU)

AG 249—AGRICULTURE INTERNSHIP 2 UNITS
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who receive instructor approval for the purpose of identifying an internship site and outlining learning objectives for the internship.
Designed for agriculture majors who wish to combine classroom experience with and expansion of skills of knowledge acquired at an internship site on a paid or volunteer basis. Occupational Cooperative work experience must directly relate to the student's area of study. Credit may be accrued at the rate of one to 8 units per semester for a total of sixteen units. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. Field trips are not required. (A-F Only) Transfer: (CSU)

AG 259ABCD—AGRICULTURAL WORK EXPERIENCE 1-4 UNITS
Formerly listed as: AG - 349ABCD: Work Experience Agriculture - Supervised Practice
A= 60-75 Lab Hours, B= 120-150 Lab Hours, C= 180-225 Lab Hours, D= 240-300 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to be following an agriculture major course of study.
Designed to give the student occupational learning opportunities and career awareness. This is accomplished through employment (paid or volunteer), providing learning related to the student’s educational or occupational goal. The student’s employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor and providing an evaluation of the student’s learning objectives. Students may earn a maximum of 4 units per semester. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

AG 285 — AGRICULTURAL COMMUNICATIONS 3 UNITS
54 Lecture Hours
Fundamentals of agricultural communication, including written, electronic, graphic, and oral communication methodologies. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

AG 305—SUPERVISION IN AGRICULTURE 2 UNITS
18 Lecture Hours, 54 Lab Hours
Training for student interns/unit managers of MJC agricultural farm facilities in the principles of supervision, demonstrating practical skill application, handling personnel problems, instructing new personnel on job performance, analyzing job efficiency and making management decisions. (Designed for West Campus Student Interns and Cooperative Association of States for Scholarships (CASS) International Students. Not repeatable. (A-F Only)

AG 390XABCD—AGRICULTURAL SKILLS TRAINING 0.5-4 UNITS
X=27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours, D=216 Lab Hours
Emphasis on developing or upgrading skills of agricultural employees. Field trips are required. Total number of AG 390 A, B, C, D units not to exceed eight total units. Lecture/Laboratory. (A-F Only)

AGEC (AGRICULTURAL ECONOMICS)

AGEC 50—SURVEY OF AGRICULTURAL ECONOMICS 3 UNITS
36 Lecture Hours, 54 Lab Hours
A preparatory course designed to further agricultural business knowledge and prepare for entry level employment and further agricultural business course pursuits. Field trips required. Not repeatable.
### AGEC 55 — PREPARATORY AGRICULTURE COMPUTER APPLICATIONS 3 UNITS

36 Lecture Hours, 54 Lab Hours

Introduction to computer use in the workplace, emphasizing agribusiness situations, use of computer applications software, including word processors, spreadsheets, and databases. Suitable for those with no previous computer experience. (A-F or P/NP) Not repeatable.

### AGEC 200 — AGRICULTURAL ACCOUNTING AND ANALYSIS 3 UNITS

54 Lecture Hours

Study of the principals of agricultural accounting systems and types of records, how to compute and use measures of earnings and costs of production to improve efficiency in agricultural operations. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

### AGEC 208 — INTRODUCTION TO INTERNATIONAL BUSINESS 3 UNITS

54 Lecture Hours

Also offered as: BUSAD 208

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 248.

A comprehensive overview of international business. Offers a global perspective of international trade, international marketing, international accounting, the operation of multinational companies, economic theories and forces, international organizations and the political and cultural impact of world trade. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

### AGEC 209 — IMPORT/EXPORT FUNDAMENTALS 3 UNITS

54 Lecture Hours

Also offered as: BUSAD 209: Import/Export Fundamentals

Overview of processes and procedures involved in importing and exporting products and services. Special emphasis on finance and financial documentation. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

### AGEC 210 — ELEMENTS OF AGRICULTURAL ECONOMICS 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have satisfactorily completed MATH 30 (formerly MATH 70) or qualification by MJC assessment process.

The place of agriculture and agri-business in the economic system; basic economic concepts, and problems of agriculture; supply and marketing problems, factors of production; state and federal agriculture programs affecting agriculture's economic position. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC General Education: (MJC-GE: B) (CSU-GE: D2) (IGETC-AB: 4B) (C-ID: AG-AB 124)

### AGEC 220 — AGRICULTURAL BUSINESS MANAGEMENT 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete AGEC 200, AG 285, MATH 30 (formerly MATH 70) and one AG production class.

Principles of agricultural management, farm organization and measures of earnings in determining production efficiency; property reports. Study and reorganization of a given farm with application of above principles; term report and field laboratories required. Field trips are required. (A-F Only) Lecture/ Not repeatable. Transfer: (CSU)

### AGEC 225 — AGRICULTURE COMPUTER APPLICATIONS 3 UNITS

54 Lecture Hours

Computer use in the agribusiness workplace, with emphasis on using software to solve agribusiness accounting problems, record keeping, creating sales presentations, and authoring business reports. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: D2) (C-ID: AG-AB 108)

### AGEC 280 — AGRICULTURAL SALES AND SERVICE 3 UNITS

36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete three agriculture courses (preferably two or more agriculture production courses and one or more agribusiness courses).

The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting territory management and customer service. Self-management, communication and interpersonal skills necessary in developing managerial abilities, leadership qualities and facilitating teamwork within the agribusiness sector. Provides students with in-depth understanding of the factors and influences that affect the agribusiness industry. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU)

### AGGE (AGRICULTURE GENERAL)

### AGGE 145 — PARLIAMENTARY PROCEDURE 1 UNIT

Also offered as: COMM 145: Parliamentary Procedure

18 Lecture Hours

Introduction to Parliamentary Procedure. Preparing for and participating in meetings as a member, officer and chairperson. Rank and use of motions. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

### AGGE 146 — AGRICULTURE, ENVIRONMENT AND SOCIETY 3 UNITS

54 Lecture Hours

The sociology of agriculture presented through an examination of relationships between societies and their environments, economics, and agriculture. Emphasis on the analysis...
of agriculture's use of technology and the corresponding impact on the environment, economy and society. Field trips might be required. (A–F or P/NP) Not repeatable.

**Transfer:** (CSU, UC) **General Education:** (MUC–GE: B) (CSU–GE: D7)

**AGGE 150—SUSTAINABLE PRODUCTION SYSTEMS**

3 UNITS

54 Lecture Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to complete more than two agricultural laboratory courses.

Examination of agricultural systems, with emphasis on integrating agricultural activities with ecological principles. Field trips might be required. (A–F Only) Not repeatable. **Transfer:** (CSU, UC)

**AGGE 191XAB—AGRICULTURE FIELD STUDIES**

0.5–2 UNITS

X=9 Lecture Hours, A=18 Lecture Hours, B=36 Lecture Hours

Examination of agriculture and methods through extended field studies at selected sites in the United States and abroad. Gain knowledge of and appreciation for the value of agriculture and agriculture education in other states and countries as a means of developing extended agriculture relationships. Field trips are required. Not repeatable. (A–F or P/NP) **Transfer:** (CSU)

**AGGE 320—EVALUATION OF AGRICULTURAL PRODUCTS**

1 UNIT

18 Lecture Hours

Develop evaluation skills used in selecting animal, plant, mechanical and business products. Field trips are not required. Not repeatable. (A–F Only)

**AGM (AGRICULTURE MECHANICS)**

**AGM 50—PREPARATION FOR MECHANICAL TECHNOLOGY**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Preparation in woodworking, cold metal, forging, plumbing, and welding as related to farm maintenance and repair. Designed for agricultural students who need development in basic mechanical skills. Students are required to have safety glasses. Materials fee required. Field trips might be required. (A–F or P/NP) Not repeatable.

**AGM 200—INTRODUCTION TO MECHANICAL TECHNOLOGY**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Basics in woodworking, cold metal, electrical wiring, plumbing, masonry and welding as related to agriculture maintenance and repair. Designed for students who seek to develop basic mechanical skills. Students are required to have safety glasses. Materials fee required. Field trips might be required. (A–F Only) Not repeatable. **Transfer:** (CSU)

**AGM 210—AGRICULTURAL WELDING**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Introduction and basic instruction in various welding and cutting methods to include: SMAW, GMAW, DAW and GTAW welding methods. Course work will include equipment selection, setup and operation. Students are required to have safety glasses. Materials fee required. Field trips might be required. (A–F Only) Not repeatable. **Transfer:** (CSU)

**AGM 211—ADVANCED AGRICULTURAL WELDING**

3 UNITS

36 Lecture Hours, 54 Lab Hours

**Prerequisite:** Satisfactory completion of AGM 210

Advanced welding and other metallurgical techniques such as pipe fitting, hard facing, GMAW and GTAW methods. Course will include welding applications for both ferrous and non ferrous materials. Students are required to have welding glasses. Materials fee required. Field trips might be required. (A–F Only) Not repeatable. **Transfer:** (CSU)

**AGM 212—MECHANICAL SYSTEMS DESIGN & EVALUATION 1**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Introduction to elements of agriculture mechanical system design and evaluation. Mechanical systems include fluid power and mechanical drive systems, structural design as well as development of evaluation procedures to ensure optimum performance. Introduction to computer evaluation and 3D modeling software will also be included. Field trips might be required. Two completions allowed. (A–F Only) **Transfer:** (CSU)

**AGM 213—MECH. SYSTEMS DESIGN & EVALUATION 2**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Advanced elements of agriculture mechanical system design and evaluation. Emphasis will be placed on mechanical and electronic data acquisition and evaluation of performance. The use of data logging equipment and computer analysis will be included. Field trips might be required. Two completions allowed. (A–F Only) **Transfer:** (CSU)

**AGM 214—EQUIPMENT SERVICE AND SAFETY**

1 UNIT

9 Lecture Hours, 27 Lab Hours

Safe tractor, forklift, and machinery operation, service and key safety practices found in shops. Safe handling of chemicals used in farming and fire safety. A job skills course for students involved in farming practices on college property. Field trips are required. (A–F Only) Not repeatable. **Transfer:** (CSU)

**AGM 215—MACHINERY MANAGEMENT**

3 UNITS

36 Lecture Hours, 54 Lab Hours

Designed for future and current equipment managers/owners to understand the selection, maintenance, and replacement of tractors and machinery, used in the agriculture, on-highway truck, and heavy equipment industries. Assessing needs and developing sound management practices for modern equipment operators. A focus on practical knowledge and “hands-on” skills is a priority. Materials fee required. Field trips are required. (A–F Only) Notrepeatable. **Transfer:** (CSU)

**AGM 220—INDUSTRIAL/AGRICULTURAL MACHINERY**

3 UNITS

36 Lecture Hours, 54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete AGEC 280.

Operation, selection and care of industrial and agricultural machinery common to this area. The calibration, repair, adjustment and hitching of machinery. Principles of power and its transmission as related to machinery. Semester notebook required. Field trips are required. (A–F Only) Not repeatable. **Transfer:** (CSU)
AGM 221—EQUIPMENT DIAGNOSIS & REPAIR  
36 Lecture Hours, 54 Lab Hours  
Emphasis on modern diagnostic techniques and equipment repair used in the agriculture, 
on-highway truck, and heavy equipment industries. Designed for the diesel equipment 
technician who wants to become more proficient in advanced diesel engine diagnosis 
and repair. Materials fee required. Field trips might be required. (A-F or P/NP) Not 
repeatable. Transfer: (CSU)

AGM 225—PRINCIPLES OF ELECTRICAL WIRING  
36 Lecture Hours, 54 Lab Hours  
Fundamental principles and applications of electrical energy used on both residential, 
industrial and agricultural situations including designing, planning and implementation 
of electrical circuits. Materials fee required. Field trips are required. (A-F Only) Not 
repeatable. Transfer: (CSU)

AGM 230—FIELD SURVEYING  
18 Lecture Hours, 54 Lab Hours  
Formerly also listed as ENGR-230: Field Surveying  
Recommended for Success: Before enrolling in this course, students are strongly 
advised to satisfactorily complete AG 280 or satisfactorily complete MATH 30 (formerly 
MATH 70).

Selection, care and checking of tapes, levels, GPS and laser systems. Introduction to total 
station care and use. Field observations, note taking and office computations; use of 
surveying instruments and equipment for land measurement and mapping; practice in 
differential, profile and contour leveling; horizontal angles, traverses, and construction 
problems used in public lands surveying, legal descriptions and county records. Materials 
fee required. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

AGM 235—IRRIGATION AND DRAINAGE  
36 Lecture Hours, 54 Lab Hours  
Irrigation and drainage problems that focus on soil-plant-water relationships, application 
scheduling, evapotranspiration, and efficiency. Introduction to irrigation equipment and 
technology to include water measurement, soil moisture measurement, pumping and 
delivery systems, and various irrigation methods. California water infrastructure, water 
budget, water rights and legislation. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU)

AGM 236—ADVANCED IRRIGATION AND DRAINAGE  
36 Lecture Hours, 54 Lab Hours  
Prerequisite: Satisfactory completion of AGM 235.  
Advanced management of irrigation systems. Emphasis placed on plant-soil-water 
relationships in reference to application, scheduling, water infiltration rates and depth, 
drainage, salinity measurement and management, chemigation, and climate control. 
Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU)

AGM 237—IRRIGATION WELLS, PUMPS, AND DRIVE SYSTEMS  
36 Lecture Hours, 54 Lab Hours  
Management and evaluation of irrigation wells, pumps and their drive systems. 
Emphasis is placed on system hydraulics, pump curves and selection, efficient operation, 
management, energy conservation, setup, maintenance and repair. Field trips are 
required. Not repeatable. (A-F Only) Transfer: (CSU)

AGM 238—IRRIGATION SYSTEM DESIGN  
36 Lecture Hours, 54 Lab Hours  
Irrigation system design fundamentals covering micro, sprinkler, surface and sub-surface 
applications. Topics include on-farm supply systems, piping and discharge as 
well as system efficiency and cost. AutoCAD and other common design software will 
be introduced and utilized. Course will include a semester design project. Field trips are 
required. Not repeatable. (A-F Only) Transfer: (CSU)

AGM 239—IRRIGATION SYSTEM INSTALLATION AND MAINTENANCE  
36 Lecture Hours, 54 Lab Hours  
Fundamentals of irrigation system installation and maintenance to include sprinkler, 
micro, surface and sub-surface applications. Topics include pumping and delivery 
systems, piping, flow control, equipment setup and testing. Emphasis will be placed on 
cost effective installation and maintenance requirements for efficient operation. Course 
will include a semester installation project. Field trips are required. Not repeatable. (A-F 
Only) Transfer: (CSU)

AGM 240—TRUCK AND TRACTOR POWER TRAINS  
36 Lecture Hours, 54 Lab Hours  
Operation and repair of truck and tractor transmissions and power. Transfer systems. Topics 
to include diagnostics and repair of transmissions, clutches and differentials. Field trips 
might be required. (A-F Only) Not repeatable. Transfer: (CSU)

AGM 241—DIESEL ENGINE PRINCIPLES  
27 Lecture Hours, 81 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised 
to satisfactorily complete AG 289 or satisfactorily complete AUTEC 289.

The operation and repair of modern diesel engines. Principles and theories are studied 
by running, testing, diagnosing, disassembling and reassembling components, systems, 
and engines. Materials fee required. Field trips are required. (AF Only) Not repeatable. Transfer: (CSU)

AGM 242—DIESEL ENGINE OVERHAUL  
36 Lecture Hours, 54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised 
to satisfactorily complete AGM 241.

This course includes principles of design and construction of heavy duty engines used in 
the agriculture, construction, and trucking industries. Principles and theories are studied 
by running, testing, diagnosis, disassembling, and reassembling components, systems, 
and engines. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

AGM 243—HEAVY MACHINERY ELECTRICAL SYSTEMS  
36 Lecture Hours, 54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised 
to satisfactorily complete AGM 241.

Designed for the entry level heavy duty mechanic interested in heavy machinery and/or 
on-highway truck. A strong understanding of basic and advanced electrical systems 
of heavy machinery will be generated. Electrical system troubleshooting, diagnosis and 
repair with the aid of technical information and electrical test equipment will be the 
focus. The class will also provide necessary electrical theory and background review for 
more advanced electrical classes. Materials fee required. Field trips might be required. 
(A-F Only) Not repeatable. Transfer: (CSU)
AGM 245—DIESEL ENGINE FUEL SYSTEMS & DIAGNOSIS 3 UNITS
36 Lecture Hours, 54 Lab Hours
The study of common types of diesel fuel injection systems. Design and theory of operation of distributor type, in-line type, as well as electronically controlled systems. Testing and diagnostic procedures for various fuel systems is a major component of the course. Service and adjustments of injectors, nozzles, and governors will also be covered. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

AGM 251—FARM CONSTRUCTION AND MATERIALS 4 UNITS
54 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete AGM 210.
Types, costs and characteristics of construction materials; their use in farm equipment, and buildings. Structural requirements, cost factors, safe loads, animal and equipment requirements, operation and labor efficiency, adaptability to the community. Designing and building projects in the shop and group field work. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

AGM 262—HYDRAULICS/PNEUMATICS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Principles and practices of hydraulics/pneumatics as used in industry. Study of the different applications and management of hydraulics/pneumatics systems for efficient and cost effective use. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

AGM 280—MOBILE MACHINERY HYDRAULIC SYSTEMS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Fundamental principles and practices of hydraulic circuitry as applied to mobile hydraulic systems in the Agriculture, Heavy Machinery, and on-Highway truck industries. Emphasis in system and component design and operation as applied to diagnosis and repair of hydraulic systems. Materials fee required. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

AGM 289—PRINCIPLES OF POWER MECHANICS/SMALL ENGINES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Also offered as: AUTEC 289: Principles of Power Mechanics/Small Engines
Introduction to the operation, construction, maintenance, repair and adjustments of two and four-stroke engines. Designed for persons without prior experience in engine repair. Experienced technicians will also benefit. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ANAT 125—HUMAN ANATOMY 4 UNITS
36 Lecture Hours, 108 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BIO 116.

ANAT 130—ADVANCED CADVER DISSECTION AND ANATOMICAL PREPARATION 1 UNIT
18 Lecture Hours
Prerequisite: Satisfactory completion of ANAT 125.
Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

ANAT 140A, B—INTRODUCTION TO TUTORING ANATOMY 1-2 UNITS
A= 9 Lecture Hours, 27 Lab Hours, B=18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ANAT 125.
Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

ANSC (ANIMAL SCIENCE)

ANSC 50—PREPARATORY ANIMAL SCIENCES 3 UNITS
54 Lecture Hours
A preparatory survey of the livestock industry, supply of animal products and their uses. A special emphasis on the origin, characteristics, adaptation, and contributions of farm animals to the agriculture industry. Analyze the economic trends and career opportunities in animal agriculture. Field trips are not required. Not repeatable. (A-F or P/NP)
ANSC 55—INTRODUCTION TO VETERINARY TECHNOLOGY  

34 Lecture Hours
Preparation for veterinary technology courses. Topics include: anatomy and physiology, nutrition, pharmacology, common diseases and disorders, genetics and heredity, and career opportunities. Field trips are not required. Not repeatable. (A-F Only)

ANSC 200—INTRODUCTION TO ANIMAL SCIENCE  

34 Lecture Hours
A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: SB)

ANSC 201—BEEF CATTLE SCIENCE  

36 Lecture Hours, 54 Lab Hours
A study of the principles and practices of purebred and commercial beef cattle production throughout California, the United States, and the world. Emphasis to be placed on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record keeping to ensure scientifically-based management decisions and consumer product acceptance as applied to beef cattle. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 202—SWINE SCIENCE  

36 Lecture Hours, 54 Lab Hours
A study of the principles and practices of purebred and commercial pork production throughout California, the United States, and the world. Emphasis to be placed on importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and record keeping to ensure scientifically-based management decisions and consumer product acceptance. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 203—SHEEP SCIENCE  

36 Lecture Hours, 54 Lab Hours
A survey of the sheep industry including management of commercial, purebred, and small farm flocks; selecting, feeding, breeding and basic care of ewes and lambs plus marketing of lamb and wool. Field trips are required. (A-F Only) Transfer: (CSU, UC)

ANSC 207—EQUINE SCIENCE  

36 Lecture Hours, 54 Lab Hours
A survey of the equine industry: selection, feeding, breeding, facilities, handling, and health management will be emphasized to ensure scientifically-based management decisions. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 209—EQUINE BREEDING & REPRODUCTION  

54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ANSC 207.

An advanced level course designed for students interested in learning more about equine reproduction and management. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 210—LIVESTOCK SELECTION & EVALUATION  

18 Lecture Hours, 108 Lab Hours
Detailed analysis of various visual and physical methods of appraising beef, sheep, swine, and goats concerning functional and economic value. Written and oral summaries of evaluation will be required. Specific reference will be made to performance data and factors determining carcass value. Four completions allowed. Field trips are required. (A-F Only) Transfer: (CSU, UC)

ANSC 214—LIVESTOCK FEEDING AND NUTRITION  

36 Lecture Hours, 54 Lab Hours
The science of animal nutrition; the fundamentals of digestion and absorption in both ruminants and non-ruminants are discussed. The nutritive value of feedstuffs as they relate to the formulation of livestock rations will be emphasized. Laboratory required. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU, UC)

ANSC 215—ANIMAL HEALTH AND SANITATION  

36 Lecture Hours, 54 Lab Hours
Common livestock diseases and fundamentals of immunity. Includes coverage of the livestock worker’s role in promoting animal health and the foundation of disease control programs. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 217—ADVANCED BREEDING & ARTIFICIAL INSEMINATION  

4 Units
54 Lecture Hours, 54 Lab Hours
Formerly listed as: ANSC 217: Advanced Breeding & Artificial Insemination

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ANSC 201 and satisfactorily complete ANSC 220 and satisfactorily complete ANSC 226.

Advanced study and practical application of breeding principles and artificial insemination of farm animals, specifically dairy-beef, the collection, evaluation, and handling of semen. Nutritional level and sanitation practices affecting reproductive efficiency. Public relations and responsibilities of the technician and the management. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU, UC)

ANSC 220—DAIRY INDUSTRY/DAIRY SCIENCE  

3 Units
36 Lecture Hours, 54 Lab Hours
History, development, and projections of the dairy industry. General information on the economics of dairying, facts, trends, selection, culling, fitting, showing, judging, pedigrees, feeding, and basic management skills; employment opportunities and requirements. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: AG-AS 112L)

ANSC 221—DAIRY CATTLE SELECTION & EVALUATION  

3 Units
18 Lecture Hours, 108 Lab Hours
Selection of dairy cattle on type conformation and the correlation between type and production. Pedigree evaluation, animal analysis, linear classification, and body condition scoring. Written and oral evaluation on selection. Two completions allowed. Field trips are required. (A-F Only) Transfer: (CSU, UC)
ANSC 222—MILK PRODUCTION & TECHNOLOGY 3 UNITS
36 Lecture Hours, 54 Lab Hours
Milk and milk product consumption and the economics of milk production. The mammary system anatomy, the physiology of milk secretion, the composition and the properties of milk including factors of production. Evaluation of milking parlors and equipment, systems analysis, and operation is also included. Milk testing, sanitation, quality control, udder health, and treatment as well as dairy mathematics. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 224—DAIRY FEEDS & FEEDING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Fundamentals of nutrient digestion and absorption in ruminants. The nutritive value of feeds as they relate to the formulation of dairy rations will be emphasized with the inclusion of various plant tissue commodities by-product feeding. Term project and field project required. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 226—DAIRY BREEDING & SELECTION 3 UNITS
36 Lecture Hours, 54 Lab Hours
The study of basic genetic principles with the study of the anatomical and physiological aspects of reproduction as they relate primarily to the bovine. Genetic principles to be emphasized include basic inheritance, selection techniques, mating systems, heterosis, and performance evaluation. Reproductive aspects to include endocrinology, estrous cycles, mating behaviors, gametogenesis, conception, gestation, parturition, and maternal behaviors. Artificial insemination, embryo manipulation, and current innovations in reproductive biotechnology will also be examined. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 227—ADVANCED DAIRY CATTLE SELECTION & EVALUATION 3 UNITS
36 Lecture Hours, 54 Lab Hours
Advanced study of dairy conformation as related to the function of milk production. Evaluation of dairy cattle using production data, pedigrees and live animal evaluation. Particular emphasis will be placed on linear classification and selective mating. Ocular interpretation of these evaluative criteria and formal reasoning presentations will be required. Evaluation of milk and milk products will be required as well. Two completions allowed. Field trips are required. (A-F Only) Transfer: (CSU)

ANSC 228—DAIRY MANAGEMENT 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ANSC 220 and satisfactorily complete ANSC 224 and satisfactorily complete AGEC 200.
Economics of dairying; milk production and marketing and their relationship to income; computing production costs; analyzing dairy enterprises; business planning; farm selection; management problems relating to feeding, labor, replacements, cow comfort, breeding, work simplification and record keeping. Term problem and field laboratories required. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 230—POULTRY SCIENCE 3 UNITS
36 Lecture Hours, 54 Lab Hours
A study of the principles and practices of commercial poultry production. Emphasis to be placed on poultry nutrition, reproduction, environmental management, health, marketing and record-keeper to ensure scientifically-based management decisions and consumer product acceptance. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 232—AVIAN PRACTICES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Practices in avian management including breeders, fryers and layers; incubating, brooding, and rearing of chicks; feed preparation; record keeping; processing, and marketing of avian products. Specific work with game birds and non-commercial species of fowl. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

ANSC 235—POULTRY DISEASES AND HOUSING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Anatomy and physiology of poultry; diagnosis, treatment, and control of disease; biosecurity; sanitation; types of housing and equipment; planning housing, and equipment needs; vaccination schedules. Students will conduct a research project. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 236—POULTRY BREEDING & SELECTION 3 UNITS
36 Lecture Hours, 54 Lab Hours
Principles of breeding, reproduction and selection of poultry. Examination of poultry breeds and their uses. Embryology, egg incubation, hatching and grading. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 240—BEEF FITTING AND SHOWING 2 UNITS
27 Lecture Hours, 27 Lab Hours
Principles of selection, feeding, fitting, and presentation of beef animals for show. Field trips might be required. Four completions allowed. (A-F Only) Transfer: (CSU)

ANSC 241—SHEEP FITTING AND SHOWING 2 UNITS
27 Lecture Hours, 27 Lab Hours
Principles of selection, feeding, fitting, and presentation of sheep animals for show. Field trips are required. Four completions allowed. (A-F Only) Transfer: (CSU)

ANSC 242—SWINE FITTING AND SHOWING 2 UNITS
27 Lecture Hours, 27 Lab Hours

ANSC 243—EQUINE FITTING AND SHOWING 2 UNITS
27 Lecture Hours, 27 Lab Hours
Principles of selection, feeding, fitting, and presentation of horses for show. Field trips required. Not repeatable. (A-F Only) Transfer: (CSU)

ANSC 244—DAIRY FITTING AND SHOWING 2 UNITS
27 Lecture Hours, 27 Lab Hours
Principles of selection, feeding, fitting and presentation of dairy animals for sales and shows. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)
COURSES

ANC 250—VETERINARY PHYSIOLOGY ANATOMY, & TERMINOLOGY 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

Commonly used terminology and biological concepts used in veterinary medicine. Includes study of basic normal anatomy and physiology in a body systems format, along with related vocabulary and spelling. Commonly used veterinary acronyms and abbreviations are woven throughout the course where relevant. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANC 251—VETERINARY PHARMACY PROCEDURES 2 UNITS
36 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 30 (formerly MATH 70) or qualification by MJC assessment process.

Includes discussion of veterinary pharmacology, proper labeling and dispensing instructions with emphasis on pharmaceutical calculations and metric conversions within the veterinary discipline. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ANC 252— VETERINARY EQUIPMENT: OPERATION, INSTRUMENTATION, AND SAFETY 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduction to diagnostic imaging equipment used in veterinary practices. Safe operation of radiographic equipment. Use of ultra-sound equipment. Use of gas anesthesia equipment - safety and proper procedure. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ANC 253—VETERINARY LABORATORY PROCEDURES 1 UNIT
18 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduction to manual and automated veterinary lab techniques and procedures, including work with blood, urine, fecal and skin samples. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ANC 254—VETERINARY MEDICAL OFFICE PROCEDURES 2 UNITS
36 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

This course covers customer service, medical communication skills, office organization, scheduling, emergency recognition and management, stress management, preventative health programs, and medical record-keeping. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

ANC 255—PREPARATION FOR VETERINARY SURGICAL AND DENTAL ASSISTANCE 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ANSC 250.

Veterinary Technician preparation for surgery, surgery assistance, surgical and dental instruments and packs, anesthesia induction, monitoring and anesthetic machine maintenance, anatomy of the mouth and dental arcade, dental prophylaxis and extractions. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANC 256—VETERINARY ASSISTANCE & NURSING: EMERGNCY PROCEDURES 1 UNIT
18 Lecture Hours

Emphasis on emergency procedures, monitoring vital signs, taking steps to stabilize patients. Basic nutritional requirements for pets, species requirements, nutritional disorders, feeding methods. Basic animal behavior, detecting signs of stress and identifying causes of behavioral problems. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANC 257—VETERINARY ASSISTANCE AND NURSING: ANIMAL HANDLING 2 UNITS
36 Lecture Hours

Basic veterinary restraint methods and nursing procedures in small animal medicine, administration of medication, catheterization, vaccination techniques, bandaging and performing minor medical procedures. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

ANC 258—BEGINNING HORSEMANSHIP 3 UNITS
36 Lecture Hours, 54 Lab Hours

Introduction to riding, saddling, grooming and bridling. Students will acquire basic knowledge of equipment and safety procedures. Course topics include use of riding aids and transitions. Students must provide their own horse and equipment for this course. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ANC 259—PACK ANIMAL - WALK/RIDE 2 UNITS
27 Lecture Hours, 27 Lab Hours

Selection, care, and use of pack animals and equipment. Topics will include safe packing trips and understanding environmental concerns on the trail. Having a horse is not a requirement for this class. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

ANC 260—ADVANCED HORSEMANSHIP 3 UNITS
36 Lecture Hours, 54 Lab Hours

Advanced instruction in the areas of riding, grooming, saddling and equine care. Students will acquire extensive knowledge of equipment and safety procedures. Course topics include use of advanced riding aids and training. Students must provide their own horse and equipment. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)
ANSC 265 — INTRODUCTION TO Colt TRAINING

36 Lecture Hours, 54 Lab Hours
Basic principles involved in handling and training the young horse. Course includes groundwork, trailering, starting a colt, advancing the green horse, and problem solving. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ANSC 270 — VETERINARY LARGE ANIMAL PHYSIOLOGY, ANATOMY & TERMINOLOGY

54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

The study of normal anatomy and physiology in large animals (equine, and production animals included) in a body systems format, along with related vocabulary and spelling. Biological, microbiological and chemical concepts as they relate to animal physiology and systemic function will be applied. Industry standard veterinary terminology, acronyms and abbreviations are used throughout the duration of the course. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANSC 271 — LARGE ANIMAL VETERINARY SURGICAL AND DENTAL ASSISTANT

54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

Veterinary Technician preparation for common large animal surgical procedures. Identification of surgical and dental instruments, surgical pack preparation, anesthesia induction, monitoring and anesthetic machine maintenance, anatomy of the mouth and multiple species, dental prophylaxis and extractions. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANSC 272 — VETERINARY LARGE ANIMAL EMERGENCY PROCEDURES

18 Lecture Hours
Comprehensive review of large animal emergency procedures, monitoring vital signs, triage and patient stabilization. Understanding shock and animal behavior based on stress and pain levels. Animal restraint in emergency situations. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANSC 273 — VETERINARY LARGE ANIMAL HANDLING

36 Lecture Hours
Large animal nursing skills including restraint, fluid therapy, administration of medication, catheterization, procedure site preparation, bandaging, splints and casting. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ANTHR 101 — BIOLOGICAL ANTHROPOLOGY

3 Units

54 Lecture Hours
Formerly listed as: ANTHR 101: Physical Anthropology
Introduction to human evolution. The evidence for human biological and behavioral adaptations is examined. Issues and topics will include the principles of genetics and evolution, human variation, comparative primate anatomy/behavior and an assessment of the human fossil record. Field trips might be required. (A-F or P/NP). Not repeatable. Transfer: (CSU, UC) (CC ANTHR 1) (C-ID: ANTH 110) General Education: (MJC-GE: B) (CSU-GE: A, B) (CSU-GE: B2, D1) (IGETC: 4A, 5B)

ANTHR 102 — CULTURAL ANTHROPOLOGY

3 Units

54 Lecture Hours
Cultural anthropology examines the broad conditions and experiences of being human through the lens of culture and the difference it makes. This course introduces the methods, theories and insights of cultural anthropology and their application to life in a multicultural society. Topics include, but are not limited to: The research and analysis of culture and cultural processes; cross-cultural comparisons of subsistence patterns, economics, kinship, gender, language, sexuality, political organization, belief systems, and expressive culture; the production of social identities and inequalities; and, cultural change in an interconnected world affected by colonization and globalization. Recommended for people who travel internationally. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ANTHR 2) (C-ID: ANTH 120) General Education: (MJC-GE: B) (CSU-GE: D1) (IGETC: 4A)

ANTHR 104 — LINGUISTIC ANTHROPOLOGY

3 Units

54 Lecture Hours
Formerly listed as: ANTHR 104: Language, Culture and Communication
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

Linguistic anthropology examines the relationship between language and the human condition. This course introduces the methods, theories and insights of linguistic anthropology, addressing questions of how, what, when, where, why and with whom we communicate. Three main areas of linguistic anthropology are examined: structural linguistics, including phonology, morphology, the study of syntax and the biocultural basis of language; historical linguistics, including language origins and evolution, language families and dialects, and language change; and, sociolinguistics, including the relationship between culture and language, language use in social context(s), language acquisition, language loss and conservation, and the connections between language, power and identity. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: ANTH 130) General Education: (MJC-GE: B, C) (CSU-GE: C2, D1) (IGETC: 3B, 4A)

ANTHR 105 — BIOLOGICAL ANTHROPOLOGY LABORATORY

1 Unit

54 Lab Hours
Formerly listed as: ANTHR 105: Physical Anthropology Laboratory
Corequisite: Concurrent enrollment in or satisfactory completion of ANTHR 101.
This laboratory course is offered as a supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Students will apply...
COURSES

ANTHR 107 — FORENSIC ANTHROPOLOGY INTRODUCTION 3 UNITS
54 Lecture Hours
Introduction to forensic anthropology as an applied field of physical anthropology; the methods of solving crimes with anthropological data and applying techniques designed for the analysis of human skeletal remains (personal identification, determination of population, cause of death, DNA analysis, and issues of collection of physical evidence). Interaction between anthropologists and law enforcement agencies and human rights issues. Field trips might be required. Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B3) (IGETC: SC) (C-ID: ANTH 115L)

ANTHR 130 — ARCHAEOLOGY & CULTURAL PREHISTORY 3 UNITS
54 Lecture Hours
An introduction to anthropological archaeology including concepts, theories, and methods employed by archaeologists in reconstructing past life ways of humans. Topics include history and interdisciplinary nature of archaeological research; data acquisition, analysis and interpretation with a discussion of applicable data and models; cultural resource management; professional ethics; and selected cultural sequences. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC: BIOL 150)

ANTHR 140 — MAGIC, WITCHCRAFT, AND RELIGION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
This course centers on the cross-cultural study of the forms, functions, poetics and politics of supernatural beliefs and associated rituals in a diverse world. Using anthropological method and theory, students examine belief systems and rituals within particular cultural contexts, including their emergence and the effect of their practice. Additional emphasis is on broad ethnographic comparison, and the course is designed for students to derive insight into the power and cultural work of religious and supernatural frameworks in various societies. Religious and supernatural worlds are also analyzed for their local and global connections with other cultural institutions, movements, forms, politics, and processes. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D1) (IGETC: 4A)

ANTHR 150 — NATIVE PEOPLE OF NORTH AMERICA 3 UNITS
54 Lecture Hours
Introductory survey of Native North Americans. Protohistory will be examined, with emphasis on historic and contemporary culture groups and their politics, economics, and religions. The impact of non-Native peoples on indigenous cultures will be explored. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ANTHR 15) General Education: (MJC-GE: B) (CSU-GE: D1, D3) (IGETC: 4A, 4C)

ANTHR 155 — ANTHROPOLOGICAL FIELD STUDIES OF CHANNEL ISLANDS 1 UNIT
18 Disc Hours
Application of principles of anthropology through extended field studies on the Channel Islands of California. Skills developed in anthropological field studies, archaeological artifact and site identification. Requires ability to work and study under rigorous conditions. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ANTHR 174 — ANTHROPOLOGY SUMMER FIELD STUDIES 3 UNITS
54 Lecture Hours
Application of principles of anthropology through extended field studies at selected sites. Skills developed in cultural field studies, ethnographic data collection, archaeological artifact and site identification. Requires ability to work and study under rigorous conditions. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ANTHR 190 — INTERNATIONAL ANTHROPOLOGY FIELD STUDIES 3 UNITS
54 Disc Hours
Application of principles of anthropology through extended field studies overseas and at international settings. Skills developed in cultural field studies, ethnographic data collection, archaeological artifact and site identification. Requires ability to work and study under rigorous conditions. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ANTHR 191 — ANTHROPOLOGY OF THE COLORADO PLATEAU 3 UNITS
54 Disc Hours
Application of principles of anthropology through extended field studies in the American Southwest. Skills developed in cultural field studies, ethnographic data collection, archaeological artifact and site identification. Requires ability to work and study under rigorous conditions. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ANTHR 192 — ANTHROPOLOGY OF THE PACIFIC NORTHWEST 3 UNITS
54 Disc Hours
Application of principles of anthropology through extended field studies in the Pacific Northwest cultural areas of the United States and Canada. Skills developed in cultural field studies, ethnographic data collection, archaeological artifact and site identification. Requires ability to work and study in rigorous conditions. Field trips are required. (A-F or P/NP) Transfer: (CSU)

AP (ANATOMY & PHYSIOLOGY)

AP 50 — ELEMENTARY HUMAN ANATOMY-PHYSIOLOGY 3 UNITS
54 Lecture Hours
Introduction to the structure and function of the human body; basic terminology, cell biology, and the organ systems. Designed as a preliminary course for allied health students, but open to all students. Field trips might be required. Not repeatable. (A-F or P/NP) (CC: BIOL 150) General Education: (MJC-GE: A)

AP 150 — INTEGRATIVE ANATOMY AND PHYSIOLOGY 5 UNITS
54 Lecture Hours, 54 Lab Hours, 18 Discussion Hours
Prerequisite: Satisfactory completion of BIO 116 or BIO 101 or BIO 111.
### COURSES

An intense one semester study of the general structure and function of the human body with an emphasis on integrative functions of the organ systems. Includes organ, tissue and cellular interrelationships; cellular communication; blood movement and hemostasis; fluid balance; respiration; digestion; and reproduction. Intended for students entering health professions that accept a one semester course. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **General Education:** (MUC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

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#### ART

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**COURSES**

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**General**

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**Perspective, composition, and expression using various drawing media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: B2, B3) (IGETC: SB, SC)

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**Health professions that accept a one semester course. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Fluid balance; respiration; digestion; and reproduction. Intended for students entering health professions that accept a one semester course. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Introduction to computer graphics using various applications and tools. Topics explored include but are not limited to: original image creation, photographic editing, scanning, printing, 3D-animation, sound, digitizing pens, mouse, and digital cameras. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Hand building and pottery construction. Emphasis on throwing, form, and design. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Introduction to throwing techniques. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Further exploration of various drawing materials and techniques. Emphasis on composition and development of a personal approach to drawing. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Prerequisite: Satisfactory completion of ART 109.**

**Hand building and pottery construction. Emphasis on throwing, form, and design. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Prerequisite: Satisfactory completion of ART 108.**

**Hand building and pottery construction. Emphasis on throwing, form, and design. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

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**Prerequisite: Satisfactory completion of ART 109.**

**Hand building, throwing techniques, and surface decoration; experiments in clay bodies, glazes and loading and unloading of kiln. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

---

**Prerequisite: Satisfactory completion of ART 120.**

**Further exploration of various drawing materials and techniques. Emphasis on composition and development of a personal approach to drawing. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C) (CSU-GE: C1)

---

**Prerequisite:** Satisfactory completion of ART 123.

**Introduction to the concepts and applications related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

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**Prerequisite:** Satisfactory completion of ART 124.

**Introduction to the concepts and applications related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 123.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 120.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 124.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 123.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 120.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)

---

**Prerequisite:** Satisfactory completion of ART 124.

**Fundamentals of art anatomy and representation of the human figure. Drawing of both the nude and draped figure in various media. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) **General Education:** (MUC-GE: C)
ART 141—SCULPTURE 2  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 140.  
Continuation of ART 140; in-depth realization of sculpture in both concept and craftsmanship. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 142—SCULPTURE 3  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 141.  
Continuation of ART 141 with an emphasis on experimentation and development of personal expression applied to sculptural problems. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 147—PAINTING 1 (IN ACRYLIC)  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 120 or ART 124.  
Introduction to acrylic painting; basic techniques and stylistic approaches. Emphasis on developing form through color. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: ARTS 210) Local Requirement: (Activities)

ART 148—PAINTING 1 (IN OIL)  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 120 or ART 124.  
Introduction to oil painting; basic techniques and stylistic approaches. Emphasis on developing form through color. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ART 21A) (C-ID: ARTS 210) Local Requirement: (Activities)

ART 149—PAINTING 2  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 147 or ART 148.  
Continued work in oil and acrylic painting; basic techniques and stylistic approaches. Emphasis on developing form through color. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ART 21B) Local Requirement: (Activities)

ART 158—PAINTING 3  
27 Lecture Hours, 81 Lab Hours  
Prerequisite: Satisfactory completion of ART 149.  
Advanced painting: Continued work in oil and acrylic painting; techniques and stylistic approaches. Emphasis on developing content as it relates to the formal issues of art. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 159—MURAL PAINTING  
27 Lecture Hours, 81 Lab Hours  
Formerly listed as: ART 159: Painting 4  
Prerequisite: Satisfactory completion of ART 147 or ART 148.  
Creation of murals on campus within the context of the community; researching different historical examples and approaches to mural making. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 160—APPRCIATION OF ART  
54 Lecture Hours  
Introductory art appreciation for the general student. Illustrated lectures cover the theory, terminology, themes, design principles, media techniques, with an introduction to the visual arts across time and diverse cultures. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 162—HISTORY OF RENAISSANCE ART  
54 Lecture Hours  
Analysis of the European 14th-16th century drawing, painting, sculpture, and architecture, with an emphasis on the Italian High Renaissance masters. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 163—HISTORY OF MODERN ART  
54 Lecture Hours  
Analysis of the arts through the study of painting, sculpture, architecture, and the history of Europe and the Americas from c. 1800 to the present. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 164—HISTORY OF ART 1: PREHISTORIC TO GOTHIC  
54 Lecture Hours  
Formerly listed as: ART 164: History of Art 1  
Analysis of great art epochs through study of paintings, sculpture, architecture and history from pre-historic times to the end of the Middle Ages. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ART 11) (C-ID: ARTH 110) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 165—HISTORY OF ART 2: RENAISSANCE TO CONTEMPORARY  
54 Lecture Hours  
Formerly listed as: ART 165: History of Art 2  
Continuation of study of painting, sculpture and architecture from Renaissance to the present. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ART 12) (C-ID: ARTH 120) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 168—HISTORY OF PHOTOGRAPHY  
54 Lecture Hours  
Formerly listed as: ART 168: Survey of Photography  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ART 170.  
An overview of the history of photography from 1800 to the present. Discussion of processes, the work of major practitioners, as well as lesser known figures, the trends, aesthetic movements, and artist groups that have shaped the course of the medium. Emphasis on those working in the fine arts. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)
ART 169—SURVEY OF ASIAN ART 3 UNITS
54 Lecture Hours
Formerly listed as: ART 169: History of Non-Western Art
An introduction to the art and architecture of India, China, Korea, Japan, Southeast, Central and Western Asia. Analysis of secular and religious trends in art from the Neolithic period to present. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ART 13) (C-ID: ARTH 130) General Education: (MUC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ART 170—BASIC PHOTOGRAPHY 3 UNITS
27 Lecture Hours, 81 Lab Hours
Introduction to the technique and aesthetic of photography: cameras, black-and-white film and print processing, composition, presentation, and concepts related to photographic practices. Practical emphasis is on film photography with discussion of digital applications. Materials fee required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: ART 40) General Education: (MUC-GE: C) (CSU-GE: C1)

ART 172—INTERMEDIATE PHOTOGRAPHY 3 UNITS
27 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of ART 170 or ART 182.
Refinement of basic craft, vision, and aesthetics as they apply to black-and-white photography. Continued emphasis on visual literacy and personalized seeing. Lessons will primarily employ film with some elements of digital media. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

ART 173—BASIC DIGITAL PHOTOGRAPHY 3 UNITS
27 Lecture Hours, 81 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ART 170.
Introductory course in digital photography. Artistic strategies and use of software applications related to fine art photography will be emphasized. The class includes lectures, discussions, critiques, computer laboratory experience and field work. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 175—COLOR PHOTOGRAPHY 3 UNITS
27 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of ART 172 or ART 186.
The study of color photography, using film and digital processes, including various output methods and presentation strategies. Artificial lighting techniques are introduced. Emphasis of course is upon “seeing” and conceptualizing in color. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

ART 178—ADVANCED PHOTOGRAPHY 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ART 172 or 186
Recommended for Success: Satisfactory completion of ART 168
Advanced exploration in the visual and technical areas of either black and white, color, or non-silver photography. Students will design a project and produce a portfolio of finished work. Field trips might be required. Materials fee required. Other - combination seminar, and Hours arranged. Not repeatable. Transfer: (CSU)

ART 192—PROFESSIONAL PRACTICES 2 UNITS
27 Lecture Hours, 27 Lab Hours
Prerequisite: Satisfactory completion of ART 172 or ART 173.
Organization of photographic work from prior classes and projects to meet individual goals including Transfer, exhibition and employment. Development of professional materials such as resume, website and business cards as well as finalization of a photographic portfolio. Materials fee required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ART 194—ART INDEPENDENT STUDY A 1 UNIT
54 Lab Hours
Limitations on Enrollment: Enrollment limited to students who receive instructor approval of completed Independent Study proposal.
Directed study of independent projects in studio art or art history, with personalized instruction beyond the standard course work. Instructor approval is required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Note: UC credit awarded after transfer review.

ART 195—ART INDEPENDENT STUDY B 2 UNITS
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who receive instructor approval of completed Independent Study proposal.
Directed study of independent projects in studio art or art history with personalized instruction beyond the standard course work. Instructor approval is required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Note: UC credit awarded after transfer review.

ART 196—ART INDEPENDENT STUDY C 3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who receive instructor approval of completed Independent Study proposal.
Directed study of independent projects in studio art or art history, with personalized instruction beyond the standard course work. Instructor approval is required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Note: UC credit awarded after transfer review.

ASTRO (ASTRONOMY)

ASTRO 151—INTRODUCTION TO ASTRONOMY LAB 1 UNIT
54 Lab Hours
Corequisite: Concurrent enrollment in or satisfactory completion of ASTRO 160.
Techniques in experimental astronomy. Determination of the properties of the Sun and solar system objects, stars and galaxies. Use of college telescopes and instruments may be incorporated into the experiments. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MUC-GE: A) (CSU-GE: B3) (IGETC: SC)
ASTRO 160—INTRODUCTION TO MODERN ASTRONOMY  
36 Lecture Hours  
Introductory survey course in astronomy. Emphasis on current studies of the solar system, the study of extra solar planetary systems, the birth and death of stars, and cosmology. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MUC-GE: A) (CSU-GE: B1) (IGETC: 5A)

AUBDY (AUTOBODY)

AUBDY 301—AUTOMOTIVE COLLISION REPAIR 1  
36 Lecture Hours, 108 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to be concurrently enrolled in AUBDY 321.

Introduction in collision repair principles and industry best practices, including OSHA and EPA regulations. Theory and practical application of careers, equipment, vehicle construction materials and fundamental repair procedures. This course works towards ICAR and ASE certification. At the end of each module the student will take a post test and be eligible for ICAR Non-Structural ProLevel 1 points. Materials fee required. Field trips might be required. Not repeatable. (A-F Only) Lecture/Lab.

AUBDY 302—AUTOMOTIVE COLLISION REPAIR 2  
36 Lecture Hours, 108 Lab Hours  
Prerequisite: Satisfactory completion of AUBDY 301.

Designed for the student who has successfully completed AUBDY 301. This course covers theory and practical application of plastic and composite repairs, bolt-on panel alignment, replacement methods, Automotive Gas Metal Arc Welding (GMAW) and Squeeze Type Resistant Spot Welding (STRSW) of aluminum and steel. This course works towards ICAR and ASE certification. At the end of each module the student will take a post test and be eligible for ICAR Non-Structural ProLevel 1 points. Materials fee required. Field trips may be required. Non repeatable. (A-F Only)

AUBDY 303—AUTOMOTIVE COLLISION REPAIR 3  
36 Lecture Hours, 108 Lab Hours  
Prerequisite: Satisfactory completion of AUBDY 302.

This course is designed for the student who has completed Auto Body 301 and 302. Topics include advanced techniques of damage analysis, repair or replacement of non-structural and mechanical components, estimating practices and employment strategies. This course works towards ICAR and ASE certification. At the end of each module the student will take a post test and be eligible for ICAR Non-Structural ProLevel 1 points. Materials fee required. Field trips might be required. (A-F Only) Lecture/Lab.

AUBDY 321—AUTOMOTIVE SPRAY REFINISHING 1  
36 Lecture Hours, 54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to be concurrently enrolled in AUBDY 301.

This course covers theory and practical application of refinishing, shop and personal safety practices, as outlined by Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA). Topics include surface preparation, undercoats, sealers, base-coats, single stage, clear coats, and final detailing. This course works towards ICAR and ASE certification. At the end of each module the student will take a post test and be eligible for ICAR Refinish ProLevel 1 points. Materials fee required. Field trips might be required. Not repeatable. (A-F Only)

AUBDY 322—AUTOMOTIVE SPRAY REFINISHING 2  
36 Lecture Hours, 108 Lab Hours  
Prerequisite: Satisfactory completion of AUBDY 321 and AUBDY 301.

This course covers advanced theory and practical application of refinishing, tinting, color evaluation, adjustments and matching. Topics include blending procedures, new waterborne technology, color identification, spray techniques and interpreting vehicle color codes. Compliance with federal law (EPA rule 40 CFR Part 63 Subpart 6H) requirements. This course works towards ICAR and ASE certification. At the end of each module the student will take a post test and be eligible for ICAR Refinish ProLevel 1 points. Materials fee required. Field trips might be required. Not repeatable. (AF Only)

AUTEC (AUTOMOTIVE TECHNOLOGY)

AUTEC 200—AUTOMOTIVE SERVICE MANAGEMENT  
36 Lecture Hours  
Introduction to automotive service management and the required skills needed to manage a service department. Service operations, management styles and strategies, financial measurement, customer relations, employee relations, selling services, legal issues and responsibilities. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

AUTEC 211—INTRODUCTION TO ALTERNATIVE FUELS AND ADVANCED TECHNOLOGY VEHICLES  
45 Lecture Hours, 27 Lab Hours  
Prerequisite: Satisfactory completion of AUTEC 368.

Introduction to the technology of alternative fuel vehicles including, fuel cell, compressed natural gas, liquid natural gas, propane, hydrogen, ethanol, biodiesel, electric, hybrids, and methanol. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

AUTEC 289—PRINCIPLES OF POWER MECHANICS/SMALL ENGINES  
36 Lecture Hours, 54 Lab Hours  
Also offered as AGM 289

Introduction to the operation, construction, maintenance, repair and adjustments of two and four-stroke engines. Designed for persons without prior experience in engine repair. Experienced technicians will also benefit. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

AUTEC 311—BASIC AUTOMOTIVE SYSTEMS  
54 Lecture Hours, 54 Lab Hours  
Introduction to the construction and operating principles of automotive systems to
include: engine, cooling, lubrication, fuel, exhaust, and electrical. Proper selection and use of automotive shop manuals, service publications, tools, measuring devices, etc. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

AUTEC 315—A1: ENGINE REPAIR 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 311
Use of automotive machine shop equipment. Engine disassembly, cleaning, inspection, measuring, and reassembly procedures. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.

AUTEC 317—AUTO HEATING & AIR CONDITIONING 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 311 or AGM 241.

AUTEC 319—A8: ENGINE PERFORMANCE 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 368.
Corequisite: Concurrent enrollment in or satisfactory completion of AUTEC 369.
Prepares students for Automotive Service Excellence A8 Exam. Comprehensive study of diagnosis and repair applications including general engines, ignition systems, fuel, air induction and exhaust systems, emission control systems, computerized engine controls, and engine electrical systems. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

AUTEC 320—L1: ADVANCED ENGINE PERFORMANCE 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 319.
Prepares students for the Automotive Service Excellence L1 Exam. Advanced engine performance topics including test equipment and diagnosis techniques of powertrain and computerized powertrain controls, fuel system and air induction systems, automotive emission controls and I/M failures. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

AUTEC 321—A5: BRAKES SYSTEMS 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 311.

AUTEC 322—A4: STEERING, SUSPENSION AND ALIGNMENT 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 311.
Prepares students for the Automotive Service Excellence A4 Exam. Principles of design and operation, techniques for diagnosis and repair of steering and suspension systems. Includes component replacement and alignment theory and procedures using two and four-wheel alignment equipment. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

AUTEC 323—A2: AUTOMATIC TRANSMISSION & TRANSAXLES 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 311.
Prepares students for the Automotive Service Excellence A2 Exam. A detailed study of the clutch, standard and automatic transmission, drive lines and differentials. Theory of operation including: friction materials, hydraulics, torque converters, gear trains, planetary gears, and controls as well as gear ratios, torque multiplication, speeds, drive line angles and tooth patterns. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.

AUTEC 324—A3: MANUAL TRANSMISSION AND DRIVE AXLES 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Formerly listed as: AUTEC 324: A3: Manual Trans and Dr Axles
Prerequisite: Satisfactory completion of AUTEC 311.
Prepares students for the Automotive Service Excellence A3 Exam. Construction, operation and diagnosis of manual transmissions and axles, to include service and overhaul. Theory as well as “hands-on” training with clutch systems and drive axle operation and service. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

AUTEC 368—A6: AUTOMOTIVE ELECTRICITY/ELECTRONIC SYSTEMS 1 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Corequisite: Concurrent enrollment in or satisfactory completion of AUTEC 311.
Introduction to automotive electrical systems. Course covers basic fundamentals: Ohm’s law, starting and charging systems, batteries, alternators and starters. Course also covers principles of operation, testing, adjusting, and rebuilding procedures for electrical systems. Materials Fee Required. (A-F Only) Not repeatable.

AUTEC 369—A6: AUTOMOTIVE ELECTRICITY 2 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of AUTEC 368.
Prepares students for Automotive Service Excellence A6 Exam. Fundamentals of automotive electronics and electrical components including computers, light and horn circuits, indicating devices, electrical accessories and computer controlled devices. Lab emphasis on testing and servicing electrical equipment. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.
COURSES

**AUTEC 373 — CLEAN AIR CAR COURSE**

72 Lecture Hours, 54 Lab Hours
Formerly listed as AUTEC 373 - 97 B.A.R. Clean Air Course
Prerequisite: Satisfactory completion of AUTEC 320.
Recommended for Success: Before enrolling in this course, students are strongly advised to contact the instructor teaching the class.

This course is California Bureau of Automotive Repair approved for the basic (EB) and enhanced (EA) emission control licenses. It is designed especially for the automobile technician preparing for the California Smog License. Students who do not have one year of trade experience in emissions/tune-up or required courses and certificates will not be eligible to take the state licensing examination. Emphasis will be on operational principles of the emission control components and how to test them. B.A.R. requires a minimum of 90% attendance and 70% (C) grade for completion. Materials Fee Required. (A-F or P/NP) Not repeatable.

**BIO (BIOLOGY)**

All courses are offered for a letter grade only unless otherwise stated. Biology majors must take major courses on a letter grade basis. All majors must complete a program of courses approved by the division. Suggested curricula for specific biological sciences majors and related fields may be obtained from the advisors. Classes may sometimes convene at off-campus sites within the YCCD.

**BIO 50 — BASIC BIOLOGY**

54 Lecture Hours
Introduction to the study of living organisms. Intended as a practical foundation for students interested in a basic knowledge of biological principles, terminology and the scientific process. May serve as a bridge to transfer level biology courses and is not open to students who have completed a transfer-level biology course. Field trips might be required. (A-F or P/NP) Not repeatable. General Education: (MJC-GE: A)

**BIO 101 — BIOLOGICAL PRINCIPLES**

54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 101.

Study of general principles of biology in relationship to the processes of all living organisms. Topics include an introduction to the nature of science, reproduction, development, evolution, energetics, molecular biology, genetics, cellular structure, homeostatic mechanisms, ecology and taxonomy. Core course intended for biology and biology-related majors. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC BIOL 2, BIO 101+ BOT 101+ ZOOL 101=BIO 2 + BIO 4+ BIO 6) (C-ID: BIOL 190) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

**BIO 111 — GENERAL BIOLOGY**

54 Lecture Hours, 54 Lab Hours

**BIO 114 — GENERAL ECOLOGY**

54 Lecture Hours, 54 Lab Hours
Formerly listed as BIO 114 — Introduction to Ecology
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduction to the biological sciences and the general concepts and principles of ecology. Topics include organization and energetics of nature, natural interactions and biological diversity. Includes global and local ecosystems, scientific methods of ecological research, nutrient cycles and conditions of existence, and ecological assessment. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: BIOL 24) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

**BIO 115 — GENETICS, EVOLUTION, AND SOCIETY**

54 Lecture Hours

**BIO 116 — BIOLOGY: A HUMAN PERSPECTIVE**

54 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 30 (formerly MATH 70) or qualification by MJC assessment process.

An introduction to the principles of biology with an emphasis on humans. Topics covered include scientific method, cell structure and function, biochemistry, metabolism, heredity, biotechnology, evolution, anatomy and physiology of the human body, development of aging, disease, and ecology. BIO 116 is recommended for allied health students. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

**BIO 128 — SIERRA NEVADA NATURAL HISTORY**

54 Lecture Hours
A study of the Sierra Nevada mountain range: the people, physical features, fungi, plants and animals. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: A)

**BIO 140 — INTRODUCTION TO MARINE BIOLOGY**

54 Lecture Hours, 54 Lab Hours
Introduction to the natural history of plant and animals living in temperate and tropical marine habitats, including rocky shore, mudflat, sandy beach, salt marsh, coral reef, mangal forest, open ocean, deep ocean, and bay/estuary. Polar and subpolar marine ecosystems will also be introduced. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

**BIO 145 — INTRODUCTION TO FRESHWATER BIOLOGY**

54 Lecture Hours, 54 Lab Hours
Introduction to the natural history of common organisms of the freshwater environment along with basic ecological principles, which includes: energy flow, nutrient cycling.
BOT 101 — GENERAL BOTANY
36 Lecture Hours, 108 Lab Hours
Prerequisite: Satisfactory completion of BIO 101.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 45 or satisfactorily complete ENGL 50 or qualification by MJC assessment process.

BOT 110 — PLANT BIOLOGY
36 Lecture Hours, 54 Lab Hours
Introduction to plants, including structure and function, heredity, development, reproduction, ecology, classification, evolution, economic and resource importance as they pertain to plants. Not open to students who have completed Biology 101. Not a substitute for Botany 101. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: SB, SC)

BUSAD (BUSINESS ADMINISTRATION)

BUSAD 50 — BUSINESS COMPUTATIONS
3 Units
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 20 or qualify by placement through the MJC assessment process.
Mathematical background for business students. Problems of buying and selling, simple and compound interest, bank discounts, trade and cash discounts, installment payments, inventory markups, annuities, present value, commissions, taxes, payrolls, depreciation, and financial statements. Field trips are not required. Not repeatable. (A-F or P/NP)

BUSAD 200 — SPREADSHEET SKILLS FOR FINANCIAL ACCOUNTING
2 Units
18 Lecture Hours, 54 Lab Hours
Formerly listed as: BUSAD 200: Financial Accounting On Spreadsheet
Corequisite: Concurrent enrollment in or satisfactory completion of BUSAD 201 or BUSAD 310.
Recommended for Success: Before enrolling in this course, students are strongly advised to have prior knowledge of the accounting cycle if currently enrolled in BUSAD 310.
Introduction to spreadsheet software. Spreadsheet and template analysis, design, testing, and documentation as they relate to the field of accounting will be covered; hands-on experience using Microsoft Excel or a similar spreadsheet application will be used. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

BUSAD 201 — FINANCIAL ACCOUNTING
4 Units
72 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 200 and satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions; focusing on a preparer approach. Covers the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC: BUSAD 2A) (C-ID: ACCT 110)
BUSAD 202—MANAGERIAL ACCOUNTING 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of BUSAD 201.
Examination of how managers use accounting information in decision-making, planning, directing operations, and controlling. Focuses on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit analysis. Examination of profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC BUSAD 2B) (C-ID:-ACCT 120)

BUSAD 203—COMPUTER ACCOUNTING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of BUSAD 201 or BUSAD 310. Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 120 if BUSAD 310 is used to satisfy the prerequisite. Introduction to the use of the computer in accounting/bookkeeping. Practical applications of accounting through hands-on experiences on the personal computer using a variety of current computer accounting software packages. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

BUSAD 208—INTRODUCTION TO INTERNATIONAL BUSINESS 3 UNITS
54 Lecture Hours
Also offered as: AGEC 208: Introduction to International Business
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 248.
A comprehensive overview of international business. Offers a global perspective of international trade, international marketing, international accounting, the operation of multinational companies, economic theories and forces, international organizations and the political and cultural impact of world trade. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

BUSAD 209—IMPORT/EXPORT FUNDAMENTALS 3 UNITS
54 Lecture Hours
Also offered as: AGEC 209: Import/Export Fundamentals
This course examines motivations and procedures for the import and export of goods and services. Emphasizes U.S. import/export regulations, documentation, logistics, community resources and customer services. Special emphasis on finance and financial documentation. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

BUSAD 210—BUSINESS COMMUNICATION 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101.
Principles and applications of written and oral business communications including routine memo and letter writing, persuasive writing, oral communication, and informative report writing. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (C-ID:-BUS5115) General Education: (MJC-GE: D2)

BUSAD 218—BUSINESS LAW 4 UNITS
72 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to be a third-semester Business Major.
Introduction to the legal process, laws and regulations affecting managerial decisions; legal concepts and case analysis in the areas of ethics, employment, consumer transactions, competition, the environment, business torts and crimes, contracts, agency, business organizations, and international business. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC BUSAD18) (C-ID: BUS 125)

BUSAD 230—PERSONAL FINANCE 3 UNITS
54 Lecture Hours
Open to both business and non-business majors. An integrated approach to personal finance and financial literacy. Topics are designed to facilitate informed and deliberate decision making, in alignment with personal values, to maximize financial resources throughout the individual’s life span. Emphasizes practical decision making using contemporary theory and real world examples while integrating the social, psychological, and physiological context in which financial decisions are made. Topics include common financial issues such as budgeting, career planning, goal setting, purchasing and financing a home and other large consumer purchases, personal risk management and insurance issues, managing credit, investment strategies, as well as tax, retirement and estate planning. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: E)

BUSAD 240—PRINCIPLES OF MANAGEMENT 3 UNITS
54 Lecture Hours
Concepts of management including managerial roles, ethical and legal issues, motivation and performance, organizational and team dynamics, leadership and motivation, decision making, and communication. Students explore how organizations do or do not function effectively in international and multicultural contexts. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC BUSAD 40) General Education: (MJC-GE: B)

BUSAD 245—PRINCIPLES OF MARKETING 3 UNITS
54 Lecture Hours
Overview of the foundations, principles, processes, and goals of marketing and an analysis of how marketing functions in current business practice. Customer needs and behaviors, development of a product and/or service to satisfy customer needs, design, and analysis of promotional strategies, distribution methods, and pricing. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC BUSAD 30)

BUSAD 246—RETAIL MANAGEMENT 3 UNITS
54 Lecture Hours
Formerly listed as: BUSAD 246: Store Management
An examination of the resources, abilities, and knowledge necessary to establish and operate a retail business successfully. Subjects studied include site selection, merchandising policies and management, buying policies and activities, pricing, retail promotion, customer service and credit, personal selling, and marketing research for retailers. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)
BUSAD 248—INTRODUCTION TO BUSINESS 3 UNITS
54 Lecture Hours
Survey of business principles, problems and operations; legal, ethical, moral, and social issues; ownership; human resources; management; production; marketing; finance; managerial controls, government regulation; risk management. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC BUSAD 20) (C-ID: BUS 110)

BUSAD 249ABCD—BUSINESS INTERNSHIP 1-4 UNITS
A = 54 Lab Hours, B = 108 Lab Hours, C = 162 Lab Hours, D = 216 Lab Hours
An internship program with selected business firms dealing with either accounting, marketing, business law, office administration, bookkeeping, real estate, or retail management practices in public or private agencies. Student interns will be under joint supervision of the employers and faculty members. Intended to provide practical applications for students who have developed theoretical knowledge and effective interpersonal skills by completing their discipline’s introductory level course(s). One unit equals 60 hours of uncompensated work experience or 75 hours of compensated work experience. See appropriate instructor for required enrollment forms. Field trips are not required. (P/NP Only) Not repeatable. Transfer: (CSU)

BUSAD 274—HUMAN RESOURCES MANAGEMENT 3 UNITS
54 Lecture Hours
The role of human resources management and its contribution to the business organization. Principles and methods of effective utilization of human resources in the business environment. Examination of the human resources environment, as well as issues relating to employee recruitment, selection, assessment, development, compensation and rewards. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

BUSAD 300—MACHINE CALCULATION 2 UNITS
27 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 20.
Instruction in the operation of the electronic calculator including addition, subtraction, multiplication, and division using constant factors and automatic accumulation as applied to business applications. Major emphasis on 10-key touch operation with maximum stroke/minute/accuracy rate. Field trips are not required. (A-F or P/NP)

BUSAD 310—BOOKKEEPING 1 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 300 or satisfactorily complete BUSAD 50.
Essential bookkeeping fundamentals for job entry in business. Basics of double entry bookkeeping: general and special journals, general and subsidiary ledgers, business forms, payroll records and governmental payroll forms. Recommended as a preparatory course for BUSAD 201, Accounting. Field trips are not required. Not repeatable. (A-F or P/NP)

BUSAD 319—PAYROLL ACCOUNTING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of BUSAD 310 or BUSAD 201
This course covers laws pertaining to wages, payroll taxes, payroll tax forms, and general journal transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms with reporting requirements; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete payroll tax forms, and prepare accounting entries using appropriate technology. Field trips are not required. (A-F or P/NP)

BUSAD 320—BOOKKEEPING 2 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of BUSAD 310
A continuation of BUSAD 310. This course covers modern bookkeeping trends and techniques and reinforces the completion of a full accounting cycle. Emphasis is placed on expanding the bookkeeper's knowledge of more advanced topics such as accounting for fixed assets, valuing receivables, the statement of cash flows, financial statement analysis, and accounting for partnerships and corporations. Content is taught based on a preparer perspective that can be applied to the workplace or bookkeeping for one's own business. Field trips are not required. (A-F or P/NP) Not repeatable.

BUSAD 336—TAX ACCOUNTING 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 201 or satisfactorily complete BUSAD 310.
Open to both accounting and non-accounting majors. This class provides an explanation of the federal tax structure as it relates to individual taxation. Study includes a practical user approach to the most important areas of the tax law including how to calculate individual income tax, maximize deductions and credits, and tax planning strategies. Emphasis placed on basic preparation and learning how to research tax questions and interpret tax laws and regulations as they relate to the individual taxpayer. Field trips are not required. (A-F or P/NP) Not repeatable.

BUSAD 351—ELEMENTS OF SUPERVISION 3 UNITS
54 Lecture Hours
Also offered as: SUPR 351
The nature and function of the supervisor's role in business, industry, and government. The skills and techniques of effective management will be examined and applied in terms of attaining maximum results through the cooperative efforts of others. Field trips are not required. Not repeatable. (A-F or P/NP)

BUSAD 358—ADVERTISING & SALES PROMOTION 3 UNITS
54 Lecture Hours
Formerly listed as: BUSAD - 358: Sales and Advertising Promotion
This course covers the elements of advertising and sales promotion in the business environment using an Integrated Marketing Communications (IMC) perspective. Topics include using advertising and sales promotion as a marketing tool; establishing objectives and budgeting for promotional program; planning and evaluation of media used in advertising; and measuring the effectiveness of an advertising and sales promotional program. Stresses practical application. Field trips are not required. Not repeatable. (A-F or P/NP)
COURSES

BUSD 364—TOTAL QUALITY MANAGEMENT 3 UNITS
54 Lecture Hours
Also offered as: SUPR 364
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete SUPR 351 or satisfactorily complete BUSAD 240.
Total Quality Management, TQM, is a method by which management and employees can become involved in the continuous improvement of the production of goods and services. This course focuses on total quality management concepts, methodologies and practices of services and manufacturing industries. Topics like organizational and cultural aspects of total quality management associated with implementing quality systems, communicating the quality message, team building, training and learning will be addressed. Field trips are not required. (A-F or P/NP) Not repeatable.

BUSD 377—HUMAN RELATIONS IN BUSINESS 3 UNITS
54 Lecture Hours
People and their roles in the business and non-profit community. The nature of work, the work environment, personal skills and performance, work groups, and solving human relations problems. (A-F or P/NP) Not repeatable.

CHEM (CHEMISTRY)

CHEM 101—GENERAL CHEMISTRY 1 5 UNITS
54 Lecture Hours, 54 Lab Hours, 18 Discussion Hours
Prerequisite: Satisfactory completion of MATH 90 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to complete CHEM 142 with a grade of C or better or complete High School Chemistry with a grade of B or better.
Principles of chemistry emphasizing measurements and significant figures, chemical reactions, stoichiometry, gas laws and theory, chemical energy, atomic structure and quantum mechanics, periodic properties, chemical bonding, molecular structure, intermolecular attractions and properties of liquids and solids, and properties of solutions. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC) (C-ID: CHEM 110) (CC CHEM 2A & 2AL) Lecture/Lab/Discussion

CHEM 102—GENERAL CHEMISTRY 2 5 UNITS
54 Lecture Hours, 54 Lab Hours, 18 Discussion Hours
Prerequisite: Satisfactory completion of CHEM 101.
Continuation of Chemistry 1 emphasizing kinetics, solutions, equilibrium, acids and bases, electrochemistry, thermodynamics, nuclear chemistry, coordination chemistry and descriptive chemistry. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC CHEM 2B & 2BL) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC)

CHEM 112—ORGANIC CHEMISTRY 1 5 UNITS
54 Lecture Hours, 54 Lab Hours, 18 Disc Hours
Prerequisite: Satisfactory completion of CHEM 102.
Organic Chemistry 1 is the first semester of a two semester sequence that covers bonding, acid-base relationships, nomenclature, stereochemistry, conjugation, resonance, mechanisms, reactions, synthesis and advanced spectroscopy of several functional groups. Laboratory includes basic techniques, (e.g., separatory methods such as extraction and chromatography), as well as emphasis on MS, UV-vis, IR and NMR analysis. A one hour discussion each week will cover advanced problem solving of lecture topics. Students may not earn credit for both CHEM 112 and CHEM 122. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) (CC: CHEM 4A + 4AL) (C-ID: CHEM 150, CHEM 160S) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC)

CHEM 113—ORGANIC CHEMISTRY 2 5 UNITS
54 Lecture Hours, 108 Lab Hours
Prerequisite: Satisfactory completion of CHEM 112.
Organic Chemistry 2 is the second semester of a two semester sequence that covers nomenclature, physical properties and reactions of hydrocarbons and halo-containing compounds, aromatic compounds, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives, amines, heterocyclic and bio-organic compounds. Mechanisms to be addressed are electrophilic and nucleophilic aromatic substitution and nucleophilic acyl substitution and addition. Oxidation and reduction processes will be investigated more thoroughly. Course concludes with an introduction to biomolecules. Concepts from CHEM 112 will be reinforced. Laboratory includes reactions and multistep synthesis with continued development of analytical techniques, in particular, mass spectrometry, IR and 1H and 13C NMR spectroscopy. Students may not earn credit for both CHEM 113 and CHEM 123. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) (CC: CHEM 4B + 4BL) (C-ID: CHEM 160S) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC)

CHEM 122—STRUCTURE AND REACTIVITY: ORGANIC CHEMISTRY 1 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 102.
Bonding, acid-base relationships, nomenclature, stereochemistry, conjugation, resonance, mechanisms, reactions, synthesis and advanced spectroscopy of several functional groups. Laboratory includes basic techniques, (e.g., separatory methods such as extraction and chromatography), as well as emphasis on MS, UV-vis, IR and NMR. Students may not earn credit for both CHEM 112 and CHEM 122. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) (C-ID: CHEM 150, CHEM 160S) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC)

CHEM 123—STRUCTURE AND REACTIVITY: ORGANIC CHEMISTRY 2 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 122.
Lecture content includes nomenclature, physical properties and reactions of hydrocarbons and halo-containing compounds, aromatic compounds, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives, amines, heterocyclic and bio-organic compounds. Mechanisms to be addressed are electrophilic and nucleophilic aromatic substitution and nucleophilic acyl substitution and addition. Oxidation and reduction processes will be investigated more thoroughly. Course concludes with an introduction to biomolecules. Concepts from CHEM 122 will be reinforced. Laboratory includes reactions and multistep synthesis with continued development of analytical techniques, in particular, mass spectrometry, IR and 1H and 13C NMR spectroscopy. Students may not earn credit for both CHEM 113 and CHEM 123. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) (CC: CHEM 4B + 4BL) (C-ID: CHEM 160S) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, SC)
CHEM 133—PROBLEM SOLVING SKILLS FOR CHEM 143 1 UNIT
18 Lecture Hours
Corequisite: Concurrent enrollment in CHEM 143.
Designed to supplement CHEM 143 with additional assistance in developing problem-solving skills necessary for success. Emphasis is placed on dimensional-analysis, nomenclature, and other basic concepts. Must be taken concurrently with CHEM 143. Field trips are not required. (P/NP Only) Not repeatable. Transfer: (CSU, UC)

CHEM 134—INTRODUCTORY COLLEGE CHEMISTRY 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
Intended to prepare students for General Chemistry with an emphasis on problem solving using unit analysis. Included are topics on measurement, classification of matter, nomenclature, gas laws, chemical reactions, atomic and molecular structure stoichiometry, aqueous solutions and fundamentals of acids and bases. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A & 4L)

CHEM 142—PRE-GENERAL CHEMISTRY 3 UNITS
36 Lecture Hours, 18 Discussion Hours
Corequisite: Concurrent enrollment in or satisfactory completion of MATH 90 or qualification by the MJC assessment process.
Intended to prepare students for General Chemistry with an emphasis on problem solving using unit analysis. Included are topics on measurement, classification of matter, nomenclature, gas laws, chemical reactions, atomic and molecular structure stoichiometry, aqueous solutions and fundamentals of acids and bases. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

CHEM 143—INTRODUCTORY COLLEGE CHEMISTRY 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 143.
Designed to meet the requirements for allied-health majors and General Education. Principles of general, inorganic chemistry with a strong emphasis on problem solving using dimensional analysis. Included are topics on measurement, classification of matter, nomenclature, gas laws, chemical reactions, atomic and molecular structure, stoichiometry, aqueous solutions and fundamentals of acids and bases. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C) (CC CHEM14 & 4L)

CHEM 144—FUNDAMENTALS OF ORGANIC & BIOCHEMISTRY 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 143.
Basic principles of organic and biochemistry for allied health majors. Topics include general organic chemistry and biological chemistry as they apply to living systems. The laboratory component will support the course topics including both qualitative and quantitative experiments, and analysis of data. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC CHEM 16 + 16L) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

CHEM 150—EXPLORING OUR CHEMICAL ENVIRONMENT 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of MATH 29 or MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
Chemical perspective of environmental topics including acid rain and global warming. Basic chemical principles are developed in order to understand such items as conventional, nuclear, and alternative energy sources, air and water pollution, fertilizers, pesticides, food preservatives, genetic engineering, and medicines and drugs. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A & 4L)

CHEM 164—INTRODUCTORY CHEMISTRY LABORATORY 2 UNITS
18 Lecture Hours, 54 Lab Hours
Corequisite: Concurrent enrollment in or satisfactory completion of CHEM 150 or CHEM 142.
Introductory concepts and techniques used in a chemistry laboratory. Recommended for liberal studies and other non-science majors. Topics include: scientific method, measurements, physical and chemical changes, data analysis, molecular compounds, chemical reactions and energy. No credit will be given for students who have completed CHEM 143 or CHEM 101. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B3) (IGETC: 5C)

CLDDV (CHILD DEVELOPMENT)

CLDDV 101—PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN 3 UNITS
54 Lecture Hours
Formerly listed as: CLDDV - 101: Introduction to Early Childhood Education
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process. An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 3) (C-ID: ECE 120)

CLDDV 103—CHILD GROWTH AND DEVELOPMENT 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process. Examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. Emphasis on interactions between maturational process and environmental factors. Studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC CHILD 1) General Education: (MJC-GE: B, E) (CSU-GE: D7, E) (IGETC: 4G) (C-ID: CLDEV 100)

CLDDV 107—INTRODUCTION TO CURRICULUM 3 UNITS
54 Lecture Hours
Formerly listed as: CLDDV - 107: Introduction to Child Development Curric
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process. This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for infants and young children. Students will examine the teacher’s role in supporting development by using observation and assessment strategies.
and emphasizing the essential role of play. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 35) (C-ID: ECE 130)

**CLDDV 109—CHILD-FAMILY-COMMUNITY**
3 UNITS
54 Lecture Hours
An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and sociocultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 22) (C-ID: CLDEV 110) (MUC-GE: B)

**CLDDV 111—HEALTH, SAFETY, AND NUTRITION**
3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety, and nutrition. Key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning, and program development for all children. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (C-ID: ECE 220) (CC CHILD 26) General Education: (MUC-GE: E)

**CLDDV 121—GUIDANCE OF YOUNG CHILDREN**
3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Introduction to positive guidance and discipline approaches in educational and family settings. Exploration of the underlying causes of misbehavior. Appropriate and effective techniques that support socio-emotional, cognitive, psychological, and physical health and development. Understanding of individual parent, teacher, and caregiving styles and attitudes relative to behavior of children. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 23)

**CLDDV 122—PROGRAMS AND ENVIRONMENTS FOR INFANTS AND TODDLERS**
3 UNITS
54 Lecture Hours
Formerly listed as: CLDDV - 122: Learning Environments Infants/Toddlers
Applies current theory and research to the care and education of infants and toddlers in group settings. Examines, essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum and environments for children birth to 36 months. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (CC CHILD 43)

**CLDDV 125—INFANT AND TODDLER DEVELOPMENT AND CARE**
3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of CLDDV 103.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 42)

**CLDDV 127—INFANT/TODDLER PRACTICUM**
3 UNITS
18 Lecture Hours, 108 Lab Hours
Formerly listed as: CLDDV - 127B: Infant/Toddler Practicum
Prerequisite: Satisfactory completion of CLDDV 101 and CLDDV 103 and CLDDV 107 and CLDDV 109 and CLDDV 121 and CLDDV 125.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Limitations on Enrollment: Enrollment limited to students who can demonstrate TB clearance.
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision in an infant/toddler classroom. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered play-oriented approaches to teaching, learning, and assessment. Knowledge of care routines and relationship based content areas will be emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children while supporting an inclusive and culturally diverse environment. Will support IFSP goals and may include participation in an educational meeting. This course is a capstone to the Child Development Program. Students are encouraged to be near completion of their major coursework when they enroll. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 16 OR CHILD 44) (C-ID: ECE 210)

**CLDDV 128—PRESCHOOL PRACTICUM**
3 UNITS
18 Lecture Hours, 108 Lab Hours
Prerequisite: Satisfactory completion of CLDDV 101 and CLDDV 103 and CLDDV 107 and CLDDV 109 and CLDDV 121 and CLDDV 125.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Limitations on Enrollment: Enrollment limited to students who can demonstrate TB clearance.
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision in a preschool classroom. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children while supporting an inclusive and culturally diverse environment. Will support IEP goals and may include participation in an educational meeting. This course is a capstone to the Child Development Program. Students are encouraged to be near completion of their major coursework when they enroll. His course is a capstone to the Child Development Program. Students are encouraged to be near completion of their major coursework when they enroll. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 16) (C-ID: ECE 210)
COURSES

CLDDV 150—ADMINISTRATION IN CHILDREN’S PROGRAMS 3 UNITS
54 Lecture Hours

Formerly listed as: CLDDV 150: Administration of Children’s Programs

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. This is a capstone course and it is expected that Students have completed the CORE Child Development courses (101, 103, 107, & 109). It is recommended that prior to taking this course, students have experience working in the field. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 30)

CLDDV 151—SUPERVISION IN CHILDREN’S PROGRAMS 3 UNITS
54 Lecture Hours

Formerly listed as: CLDDV 151: Advanced Administration of Children’s Programs

Advanced Administration of Children’s Pro Management and supervision in Early Care and Education programs. Includes strategic planning, group dynamics, supervision of staff and volunteers, development of motivation and morale, leadership and management skills, functions of personnel, interview skills, evaluations, human resource issues, resolving group conflicts and working with advisory boards. Designed to provide knowledge of methods and principles for working with adults in a supervisory capacity in Early Care and Education settings. This is a capstone course and it is expected that Students have completed the CORE Child Development courses (101, 103, 107, & 109). It is recommended that prior to taking this course, students have experience working in the field. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 31)

CLDDV 154—ADULT RELATIONSHIPS & MENTORING IN SCHOOL 2 UNITS
36 Lecture Hours

Methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. Required for Master Teacher Permit and/or Site Supervisor Permit. This is a capstone course and it is expected that Students have completed the CORE Child Development courses (101, 103, 107, & 109) prior to enrolling. It is recommended that prior to taking this course, students have experience working in the field. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 17)

CLDDV 160—INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS 3 UNITS
54 Lecture Hours

Formerly listed as: CLDDV - 160: Atypical Development

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete CLDDV 103 or satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 19) General Education: (MJC-GE: B)

CLDDV 163—CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS 3 UNITS
54 Lecture Hours

Formerly listed as: CLDDV - 163: Working With Children With Special Needs

Prerequisite: Satisfactory completion of CLDDV 103.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 19)

CLDDV 167—OBSERVATION AND ASSESSMENT 3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of CLDDV 103 and CLDDV 163.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 4) (C-ID: ECE 200)

CLDDV 173—AUTISM: OVERVIEW AND TREATMENT 3 UNITS
54 Lecture Hours

Basic concepts of autism. Topics include description, identification, interventions and treatments, and DIR Floor Time approach. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CLDDV 262—DIVERSITY IN EDUCATIONAL SETTINGS 3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of CLDDV 103.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms, and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate antibias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: B) (CSU-GE: D7) (CC CHILD 36) (C-ID: ECE 230)
CLDDV 291—CREATIVE ACTIVITIES FOR YOUNG CHILDREN 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process. Develop, implement, and analyze developmentally appropriate creative experiences in the young child’s learning process. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CLDDV 292—MATH & SCIENCE CURRICULUM FOR YOUNG CHILDREN 3 UNITS
54 Lecture Hours
Formerly listed as: CLDDV 292: Math & Science Curriculum for Young
Study of math and science exploration for young children. Evaluation and development of appropriate math and science activities and materials. Discussion of variations in developmental levels, inclusion of children with special needs, and respect of cultural differences. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CHILD 12 & CHILD 13)

CMPET (COMPUTER ELECTRONICS)

CMPET 206—PERSONAL COMPUTER ASSEMBLY, UPGRADING & REPAIRING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete CSCI 201 or concurrently enroll in CSCI 201.
An introductory course in assembling, upgrading and repairing of personal computer systems. Emphasis on hands-on laboratory activities with personal computer hardware. Operating principles of computer subsystems and peripheral devices. Use of diagnostic software and hardware tools. Multi-user system setup and maintenance. Materials fee required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

CMPET 210—INTERMEDIATE SERVICING WITH A+ CERTIFICATION TRAINING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CMPET 206 or CMPET/ELTEC 214.
Intermediate principles and practices of personal computer systems maintenance, upgrading and repair with an emphasis on preparation for A+ Computer Technician Certification administered by CompTIA. Contents include hardware and operating system setup, adding peripherals, communication and networking fundamentals, disaster recovery and supporting Windows NT. Materials fee required. Not repeatable. Transfer: (CSU)

CMPET 212—DIGITAL PRINCIPLES AND CIRCUITS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ELTEC 208 and satisfactorily complete MATH 30 (formerly MATH 70).
Also offered as ELTEC 212

CMGR (COMPUTER GRAPhICS)

CMGR 202—INTRODUCTION TO COMPUTER GRAPHICS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Also offered as ART 102 - Introduction to Computer Graphics
Introduction to computer graphics using various applications and tools. Topics explored include but are not limited to: original image creation, photographic editing, scanning, printing, 3D-animation, sound, digitizing pens, mouse, and digital cameras. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)
COURSES

CMGR 213 — APPLIED COMPUTER GRAPHICS 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Concepts and techniques in computer graphics as related to fine and applied art applications. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 215 — BUSINESS PRESENTATION GRAPHICS 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

The use of a computer as a vehicle for preparing, producing, and controlling the presentation of visuals within the business environments. Hardware and peripheral equipment as well as commercially available software will be covered. Emphasis is placed on the use of existing commercially available software with “hands on” experience being provided in an open lab environment. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC CCTIS 137)

CMGR 217 — COMPUTER ILLUSTRATION SOFTWARE 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Introduction to illustration software as applied to visual and data presentations. Explores the techniques and tools used by artists, designers, and illustrators to produce artwork for print, publishing, multi-media graphics, web page design or illustration. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 219 — COMPUTER GRAPHICS PORTFOLIO REVIEW 1 UNIT
18 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to have a basic working knowledge of personal computers including: turning on and off a computer system correctly; starting programs, moving and resizing windows, the Start Menu, understanding how your computer is organized; manipulating a mouse, including selecting, double clicking, and dragging items; naming, saving, and deleting files; using portable flash memory and other common storage devices.

Prepares the student majoring in or receiving a certificate in Computer Graphics, Commercial, or Fine Art with the necessary visual and business skills to develop a portfolio; emphasizes the creative and applied business needs for individuals entering their respective professional field. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

CMGR 225 — 3D GRAPHICS AND ANIMATION 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to have a basic working knowledge of personal computers including: turning on and off a computer system correctly; starting programs, moving and resizing windows, the Start Menu, understanding how your computer is organized; manipulating a mouse, including selecting, double clicking, and dragging items; naming, saving, and deleting files; using portable flash memory and other common storage devices.

Graphic and animation techniques utilizing microcomputers and 3D software. 3D modeling, scene composition, materials editing, object and camera movement, character development, and storyboarding will be explored. Students will have intensive hands-on experience with IBM or MAC graphic systems and related peripheral devices. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 226 — 3D GRAPHICS AND ANIMATION 2 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to have successfully completed CMGR 225.

Continued development of 3D modeling and animation skills. Storyboarding, integration of 3D software with other industry standard applications. Finished animation production techniques. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 235 — BEGINNING PHOTOshop 3 UNITS
36 Lecture Hours, 54 Lab Hours

Formerly listed as Image Manipulation Software

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete CMGR 202/ART 102.

Introduction to the techniques and technology of digital imaging and image manipulation software. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 236 — ADVANCED PHOTOshop 3 UNITS
36 Lecture Hours, 54 Lab Hours

Formerly listed as Advanced Photoshop Applications

Recommended for Success: Before enrolling in this course, students are strongly advised to have satisfactorily completed CMGR 235.

Advanced skills in Adobe Photoshop including layout and publication, image processing, fine art and illustration. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 252 — DESKTOP PUBLISHING FOR COMPUTER GRAPHICS 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Desktop publishing concepts with hands-on training in the use of computers, printers, scanners, and various page-layout applications; text and graphics will be integrated into documents and publications typically used in a range of computer graphics disciplines. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

CMGR 263 — INTERNET LITERACY 3 UNITS
36 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Provides the conceptual background and the online skills needed to become Internet literate. Covers Internet services: e-mail, listserv, newsgroups, FTP, telnet and the
World Wide Web (WWW). Emphasis will be placed on the WWW, types of access (ISP), usage, software (browsers and other support software) and Internet etiquette in a global environment. Introduction to publishing and multimedia. Usage of search engines to conduct research and copyright issues and bibliographic style. Reflects on the impact of emerging technologies on the future of commerce and communications as well as societal issues. (A-F or P/NP) Not repeatable. **Transfer:** (CSU)

**CMPGR 266—INTERACTIVE MEDIA DESIGN AND DEVELOPMENT** 3 UNITS

36 Lecture Hours, 54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to have a basic working knowledge of personal computers including: turning on and off a computer system correctly; starting programs, moving and resizing windows, the Start Menu, understanding how a computer is organized; manipulating a mouse, including selecting, double clicking, and dragging items; naming, saving, and deleting files; using portable flash memory and other common storage devices.

This course provides students with an introductory and timely exploration of the tools and processes in the design and development of interactive media content. It covers best practices for interactive media content creation, including text, image, animation, audio and video elements as well as copyright issues, and guidelines for accessibility and usability within the work. Field trips might be required. (A-F or P/ NP) Not repeatable. **Transfer:** (CSU)

**CMPGR 267—DREAMWEAVER IN WEB SITE DESIGN** 3 UNITS

36 Lecture Hours, 54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Macromedia’s Dreamweaver web design software, including templates, libraries, Cascading Style Sheets, and FTP. Strategies for creating intuitive and accessible web sites such as audience considerations, site map and navigational building, and testing. (A-F or P/NP) Not repeatable. **Transfer:** (CSU)

**CMPGR 268—FLASH: WEB GRAPHICS AND ANIMATION 1** 3 UNITS

36 Lecture Hours, 54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete ART 102 or satisfactorily complete CMPGR 202.

Instruction to Adobe’s Flash. Covers the tools and concepts of Flash and its many interactive possibilities and functions, including drawing, image, text, animation, sound, and action-scripting Integration. Explores the strategies for creating intuitive and accessible Flash productions from start-to-finish, such as audience considerations, site map and navigation building, and the effective use of content and animation, output, optimization, and testing. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) (CC CMPS 19)

**CMPGR 284—BEGINNING AFTER EFFECTS** 3 UNITS

Formerly listed as: CMPGR 284: Desktop Video Animation

36 Lecture Hours, 54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to be able to demonstrate basic computer skills such as creating and navigating folders and files.

Fundamental skills in animation and special effects concepts and techniques utilizing computers and digital video media. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) **Local Requirement:** (Activities)

**COLSK (COLLEGE SKILLS)**

**COLSK 100—FOUNDATION FOR FIRST YEAR COLLEGE SUCCESS** 3 UNITS

54 Lecture Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and READ 82 or qualification by MJC assessment process.

This multidisciplinary course provides first time in college students with an introduction to the purpose of higher education, acclimation process, and outcomes of higher education through the exploration of student development and personal growth principles and application. The course will focus on navigating the college environment, stages of development, life management skills, strategies for college success, health and wellness management, as well as techniques for maximizing abilities as lifelong learners. Students will examine the relationship between growth principles and the intellectual, social, physiological, and psychological aspects of student and personal development and well-being. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) (CC GUIDE 18) **General Education:** (MJC-GE: E) (CSU-GE: E)

**COMM (COMMUNICATION STUDIES)**

The Communication Studies Program at Modesto Junior College offers students a variety of courses which incorporate both theory and performance instruction. These include public speaking, argumentation and debate, organizational communication, intercultural and interpersonal communication, contest speaking and forensics competition which includes debate and individual events. The MJC Forensics Team has captured a number of state and national championships. The program also offers courses in practical speech communication and voice improvement. Most courses are available to students in both day and evening hours.

**COMM 100—FUNDAMENTALS OF PUBLIC SPEAKING** 3 UNITS

54 Lecture Hours

**Formerly listed as SPCOM 100**

Developing individual effectiveness in various speech activities, emphasis on public speaking; instruction and practice in selection, organization and presentation of materials. Development of self-confidence and listening skills. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC SPCOM 1) (C-ID: COMM 110) **General Education:** (MJC-GE: D2) (CSU-GE: A1) (IGETC: 1C)

**COMM 102—INTRODUCTION TO HUMAN COMMUNICATION** 3 UNITS

54 Lecture Hours

**Formerly listed as SPCOM 102**

A survey of the discipline of communication studies with emphasis on interpersonal contexts, group discussions, and individual presentations in public settings. This course explores issues relevant to the systematic inquiry and pursuit of knowledge about human communication including its history, principles, processes, assumptions, methods, and specializations of human communication as an academic field of study. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC SPCOM 4) (C-ID: COMM 115) **General Education:** (MJC-GE: D2) (CSU-GE: A1) (IGETC: 1C)
COMM 103—INTERPERSONAL COMMUNICATION  
54 Lecture Hours  
Formerly listed as SPCM 103  
Principles of interpersonal communication including perceptual, verbal, and nonverbal elements. The study of interpersonal communication theory, research findings, concepts, and skills as applied within personal and professional relationships. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: COMM 130) General Education: (MJC-GE: B) (CSU-GE: D7) (IGETC: 4G)

COMM 104—ARGUMENTATION  
54 Lecture Hours  
Formerly listed as SPCM 104  
Prerequisite: Satisfactory completion of ENGL 101.  
Primary emphasis on argumentation as the study of analysis, evidence, reasoning, refutation and rebuttal, etc., in oral and written communication. Significant component of instruction in written argumentation, with special attention to the essay form. "Critical Thinking" approaches to commercial, legal, political, and academic argumentation and persuasion. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: COMM 104) General Education: (MJC-GE: B) (CSU-GE: D7) (IGETC: 4G)

COMM 105—INTERCOLLEGIATE FORENSICS  
36 Lecture Hours, 54 Lab Hours  
Formerly listed as: SPCM 105: Forensics Debate, SPCM - 105: Forensics Workshop  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete COMM 100 (Formerly SPCM 100) or satisfactorily complete COMM 102 (Formerly SPCM 102) or satisfactorily complete COMM 107 (Formerly SPCM 107) or satisfactorily complete COMM 120 (Formerly SPCM 120).  
Preparation, including research and writing; for participation in intercollegiate speech and debate tournaments and/or community events as a judge and/or competitor. Field trips are required. Four completions allowed. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: COMM 160B) Local Requirement: (Activities)

COMM 106—GROUP & ORGANIZATIONAL COMMUNICATION  
54 Lecture Hours  
Also offered as: SUPR 106  
Formerly listed as: SPCM 106: Organizational Communication  
Communication within and between groups and organizations while enhancing individual communication skills. Emphasis on communication and organizational theory as basis for focus on such communication processes as task-oriented discussions, problem solving, leadership, conflict resolution and negotiation, communication climate, and organizational culture. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC SPCM 9 or BUSAD 9) (C-ID: COMM 140) General Education: (MJC-GE: D2)

COMM 107—INTRODUCTION TO DEBATE  
54 Lecture Hours  
Formerly listed as SPCM 107  

COMM 110—PERSUASION  
54 Lecture Hours  
Formerly listed as SPCM 110  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete COMM 100 (Formerly SPCM 100).  
Development of abilities to plan and deliver persuasive presentations through a combination of methods involving the study of "real" communicative events; i.e., trials, sales presentations, political campaigns, sermons, etc., and the preparation and presentation of own works. Survey of recent research in attitude change and persuasive communication. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: COMM 190) General Education: (MJC-GE: D2) (CSU-GE: A1) (IGETC: 1C)

COMM 120—ORAL INTERPRETATION  
54 Lecture Hours  
Formerly listed as: SPCM 120: Oral Reading / Interpretation  
Skills in oral interpretation of literature; choice of material, involvement with material; communication of author's thought, emotion and language; expanded knowledge of literature and literary forms. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: COMM 170) General Education: (MJC-GE: C) (CSU-GE: C1)

COMM 122—INTRODUCTION TO READERS' THEATRE  
54 Lecture Hours  
Also offered as: THETR 122: Introduction to Readers' Theatre  
Formerly listed as SPCM 122  
Study of oral interpretation principles as they apply to group and choral reading. Emphasis will be placed upon the preparation and performance of Readers’ Theatre productions. Students are provided the necessary theory, practice for performance and criticism to enhance skills for development and oral presentation of Readers' Theatre material. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)

COMM 123—STORYTELLING  
54 Lecture Hours  
Also offered as: THETR 123  
Formerly listed as SPCM 123  
Introduction to the art of storytelling focusing on the preparation and presentation of literature. Emphasis is placed upon selection of materials, analysis, preparation, and presentation of various genres of stories. Designed to develop the adult reader's knowledge, critical ability and appreciation of literature, as well as critical listening of others sharing literature. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)
COMM 124—ADVANCED READERS’ THEATRE 3 UNITS
54 Lecture Hours
Also offered as: THETR 124: Advanced Readers’ Theatre
Formerly listed as SPCOM 124
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete COMM 122 (Formerly SPCOM 122) or satisfactorily complete THETR 122.

Continued development of the construction and direction of Readers’ Theatre performances suitable for public presentation. Emphasis on analysis of reading materials and helping others enhance communication skills through vocal control and physical expression. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)

COMM 130—INTERCULTURAL COMMUNICATION 3 UNITS
54 Lecture Hours
Formerly listed as SPCOM 130
Examines the influence of culture on human communication. Students will learn skills to communicate effectively with people from different cultures. Theoretical and practical models are explored. Emphasis on cultural identity, relationships, stereotyping, prejudice, nonverbal and verbal cues, values, beliefs, and norms. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D3, D7)(IGETC: 4C, 4G)

COMM 132—INTRODUCTION TO MASS COMMUNICATION 3 UNITS
54 Lecture Hours
Survey of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C, D2) (CSU-GE: C1, D7)(IGETC: 3A, 4G) (C-ID: JOUR 100)

COMM 133—MEDIATED COMMUNICATION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Principles of mediated (technology-enhanced) communication in personal and professional relationships. Explores the history, evolution, and utilization of technology in human interaction. Emphasis on the ways in which technology affects self-concept, perception, verbal and nonverbal communication, and emotions in human communication. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: D2)

COMM 145—PARLIAMENTARY PROCEDURE 1 UNIT
18 Lecture Hours
Also offered as: AGGE 145: Parliamentary Procedure
Formerly listed as SPCOM 145
Introduction to Parliamentary Procedure. Preparing for and participating in meetings as a member, officer and chairperson. Rank and use of motions. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)
COURSES

CSCI 203—SYMBOLIC LOGIC  3 UNITS
54 Lecture Hours
Formerly listed as CMPSC 103
Also offered as PHILO 103.

An introduction to the principles of valid deductive reasoning, including both sentential and predicate logic. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) C-ID: PHIL 210 General Education: (MJC-GE: D2) (CSU-GE: A3)

CSCI 204—DISCRETE STRUCTURES FOR COMPUTER SCIENCE  3 UNITS
27 Lecture Hours, 81 Lab Hours
Formerly listed as CMPSC 219

Prerequisite: Satisfactory completion of CSCI 203 (Formerly CMPSC 205) and MATH 90 or qualification by the MJC assessment process.

Introduction to computational topics essential for work in Computer Science. Topics include: number bases, induction, sets, relations, functions, congruence, recursion, combinations and permutations, probability, graphs, trees, logic, Boolean algebra, and proof techniques. Computing related problems and examples are integrated throughout the course. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) C-ID: COMP 152 General Education: (MJC-GE: D2) (CSU-GE: B4) IGETC: 2A

CSCI 210—INTRO TO UNIX/LINUX SYST & PROGRAMMING  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 206

Prerequisite: Satisfactory completion of CSCI 204 (Formerly CMPSC 204).

Introduction to the UNIX operating system using Linux. Coverage will include using UNIX shells, commands, the role of the system administrator, the UNIX file system, editors, file processing, shell programming, utilities, PERL and CGI programming, C and C++ programming, and recent developments in UNIX and the X-Windows graphical user interface. Extensive hands-on experience using UNIX operating system and programming within the UNIX environment. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

CSCI 211—UNIX/LINUX ADMINISTRATION  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 210

Prerequisite: Satisfactory completion of CSCI 210 (Formerly CMPSC 206).

Overview of fundamental responsibilities of advanced UNIX/Linux system administration. Topics include file system monitoring, file and directory archiving, user account management, shutdown and rebooting sequences, system backups, system log responsibilities, system security and configuration, monitoring and implementation of Web/DNS/Mail servers. Projects focus on the creation of shell scripts to automate system administration tasks. Requires hands-on projects and scenario-based learning. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC)

CSCI 213—WINDOWS SERVER OS  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 264

Prerequisite: Satisfactory completion of CSCI 240 (Formerly CMPSC 263).

Technical study of the Windows Server operating system. Includes server hardware, installation, configuration, clients, management, network protocols, active directory and security, remote access and virtual private networks, interoperability, Internet and intranets, monitoring, tuning, and troubleshooting. Hands-on computer assignments required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: D2)

CSCI 220—BUSINESS INFORMATION SYSTEMS  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: CMPSC 202: Business Information Systems

Prerequisite: Satisfactory completion of CSCI 201 (Formerly CMPSC 201), CSCI 270 (Formerly CMPSC 204), or CSCI 200 (Formerly CMPSC 203).

Introduction to design, development, and use of information system models to improve managerial decision making. Study of information systems hardware and software; advanced computer codes; systems analysis and planning; systems security; application development using decision support systems; and expert systems. Lab work will focus on Internet research and advanced spreadsheet, database, and word processor functions for solutions to business problems. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) C-ID: ITIS 120) (CC CCTIS 10)

CSCI 221—PROGRAMMING WITH VISUAL BASIC  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 213

Prerequisite: Satisfactory completion of CSCI 212 (Formerly CMPSC 204).

Concepts in programming a computer using the language called Visual BASIC. Emphasis on structured design, graphical user interfacing, and documentation. Includes user screen development, control constructs, array processing, elementary file processing, and database access. Hands-on experience using microcomputers. Extensive interaction with computers will be expected. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC CCTIS 48) General Education: (MJC-GE: D2)

CSCI 222—ADVANCED VISUAL BASIC  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 214

Prerequisite: Satisfactory completion of CSCI 221 (Formerly CMPSC 213).

Advanced concepts of computer programming using Microsoft Visual BASIC. Students will program user interfaces with Microsoft Word, Excel and Access. They will also create Internet and general business interfaces. Graphics and game structure applications will be covered. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

CSCI 223—SPREADSHEET SOFTWARE  3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 211

Introduction to spreadsheet software. Spreadsheet analysis, design, testing and documenting will be covered. Data entry, data management, graphing and keystroke macros will be emphasized. Applications in various areas will be explored with emphasis in business, professional, and educational use. Hands-on experience using a microcomputer. Emphasis on Microsoft Excel or similar spreadsheet application. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (CC CCTIS 30)
### COURSES

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| CSCI 224      | INTERMEDIATE WORD PROCESSING                     | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPSC 231  
**Also offered as:** OFADM 231: Intermediate Word Processing  
**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 203 and/or satisfactorily complete OFADM 330.  
Intermediate word processing features such as mail merge, styles, graphics, tab, and sorts. Features will be applied in creating business documents. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) (CC OFTEC 141) |
| CSCI 230      | DATABASE MANAGEMENT SYSTEMS                      | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as: CMPSC 275: Database Management Systems/Microcomputer  
Prerequisite: Satisfactory completion of CSCI 200 (Formerly CMPSC 203) or CSCI 201 (Formerly CMPSC 201) or CSCI 270 (Formerly CMPSC 204).  
Introduction to database management systems (DBMS). Instruction on the design, setup and maintenance of a DBMS. Applications in inventory control, mailing lists, report, report construction and format, sorting and indexing operations, general file relationships and information retrieval. Hands-on experience using a microcomputer. Emphasis on desktop DBMS such as Microsoft Access. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) (CC CCTPG 51) **General Education:** (MJC-GE: D2) |
| CSCI 231      | DATABASE PROGRAMMING WITH SQL                    | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as: CMPSC 225 - SQL Database Implementation  
Prerequisite: Satisfactory completion of CSCI 230 (Formerly CMPSC 275) or CSCI 270 (Formerly CMPSC 204).  
Provides students with the technical skills required to implement a database solution with SQL Server. Topics include: architecture, key features of SQL Server, reviewing SQL Server programming tools, Transact-SQL, creating databases, data integrity, planning and creating indexes, advanced query techniques, summarizing data, managing transactions and locks, implementing views, stored procedures and triggers, working with distributed data, and advanced text queries. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) |
| CSCI 232      | DATABASE SERVER ADMINISTRATION                   | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPSC 220 - SQL Server Administration  
**Recommended for Success:** Before enrolling in this course, students are strongly advised to have prior experience working with computer server systems or first complete CMPSC 264 - Windows Server OS course.  
Provides students with the knowledge and skills required to install, configure, administer, and troubleshoot various SQL Server client/server database management systems. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) |
| CSCI 240      | NETWORKING ESSENTIALS                            | 4     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPSC 263  
Prerequisite: Satisfactory completion of CSCI 201 (Formerly CMPSC 201).  
Concepts of networking technologies. Includes networking standards and the OSI model, transmission basics and media, TCP/IP protocols, topologies and Ethernet standards, hardware, WANS and remote connectivity, wireless networking, network operating systems, voice and video over IP, network security, network troubleshooting, integrity and availability of networks, and network management. Designed to assist individuals preparing for various certifications. Hands-on computer assignments required. Materials Fee Required. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) |
| CSCI 241      | ADVANCED NETWORKING & SECURITY                   | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPSC 281  
Prerequisite: Satisfactory completion of CSCI 213 (Formerly CMPSC 264).  
Technical study of security for networks. Includes assessing security risks, planning administrative access and user accounts, securing communication channels, securing file and print resources, secure access to remote users and offices, secure network access to Internet users, extending the network to partner organizations, designing a public key infrastructure, and developing a security plan. Hands-on computer assignments required. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) |
| CSCI 242      | DIRECTORY SERVICES                               | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPSC 289  
**Recommended for Success:** Before enrolling in this course, students are strongly advised to either complete CSCI 213 (Formerly CMPSC 264), Windows Server, or have experience managing business server systems.  
Technical study of Directory Services using tools such as LDAP and Active Directory. Includes the design and implementation of directory services, analyzing business requirements, information technology structures, software, hardware and network requirements, large and small scale directory services design, group policy design, design topology and locations, replication and disaster recovery. Hands-on computer assignments required. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) |
| CSCI 250      | PUBLISHING ON THE WORLD WIDE WEB                 | 3     |              | 36 Lecture Hours, 54 Lab Hours  
Formerly listed as CMPGR 264  
**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete CMPGR 262.  
Development, components, and impact of the World Wide Web. Publishing of personal and professional documents for access on the Web. Use of Web browsers and supporting applications including editors, convertors, graphical generators, and manipulators. Coverage of hypertext (HTML) and portable document format coding. Search tools and strategies for information and resource retrieval, and downloading files from FTP sites. Introduces design concepts. Extensive hands-on experience. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU) (CC CCTDM 12) |
CSCI 252—SCRIPT PROGRAMMING FOR THE WEB 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 216 - Javascript Programming for the Internet
Prerequisite: Satisfactory completion of CSCI 270 (Formerly CMPSC 204).
Developing World Wide Web applications with HTML and scripting tools such as python, javascript, ruby and perl. An introduction to creating interactive HTML documents through manipulation of the WWW DOM (Document Object Model). Designing Web-based applications, validating and processing user input, creating dynamic documents utilizing DHTML. Extensive programming projects demonstrating problem solving and implementation skills will be assigned throughout the semester. Hands-on computer assignments required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

CSCI 253—WEB DATABASE DEVELOPMENT 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 276 - Introduction to Data Warehousing
Prerequisite: Satisfactory completion of CSCI 230 (Formerly CMPSC 275) or CSCI 231 (Formerly CMPSC 225) or CSCI 232 (Formerly CMPSC 220).
Introduction to Web Database development. Emphasizes heterogeneous database design, optimization and reporting in a web database environment. This class will use industry standard tools and techniques with a variety of databases and programming tools. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: D2)

CSCI 270—INTRODUCTION TO PROGRAMMING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: CMPSC - 204: Introduction to Programming
First course in computer programming compliant with the standards of the Association for Computing Machinery (ACM). This course is for students with little or no programming experience. General computer literacy issues useful for technicians such as computer hardware, software development, operating systems, and telecommunications. Beginning problem-solving analysis, documentation, algorithm design, control structures, as well as program coding using an appropriate beginning programming language. Data manipulation, logic, looping, program testing, and program maintenance will be stressed. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

CSCI 271—PROBLEM SOLVING AND PROGRAMMING 1 3 UNITS
27 Lecture Hours, 81 Lab Hours
Formerly listed as CMPSC 205
Prerequisite: Satisfactory completion of CSCI 270 (Formerly CMPSC 204).
First course for Computer Science Transfer majors, but open to all students. Emphasizes object-oriented programming, algorithmic design, and problem analysis skills for computer science. Software engineering skills will be emphasized. Solutions will be implemented using a high-level object-oriented programming environment such as, C++, C#, or JAVA. Extensive programming projects demonstrating problem solving and implementation skills will be assigned throughout the semester. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC:CCTPG 22) (C-ID: COMP 122) General Education: (MJC-GE: D2)

CSCI 272—PROBLEM SOLVING AND PROGRAMMING 2 3 UNITS
27 Lecture Hours, 81 Lab Hours
Formerly listed as CMPSC 261
Prerequisite: Satisfactory completion of CSCI 271 (Formerly CMPSC 205).
Introduction to data structures implemented using object-oriented design. Includes more advanced features of high-level languages such as C++ or Java. Continued emphasis on good programming methodologies and problem solving techniques and analysis. Emphasis on algorithm efficiency, recursive algorithms, and linked lists, stacks, queues, and trees. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC:CCTPG 24) (C-ID: COMP 132) General Education: (MJC-GE: D2)

CSCI 273—ASSEMBLY LANGUAGE PROGRAMMING 3 UNITS
27 Lecture Hours, 81 Lab Hours
Formerly listed as CMPSC 241
Prerequisite: Satisfactory completion of CSCI 271 (Formerly CMPSC 205).
First course in computer architecture and assembly language programming. Data representation and manipulation, CPU organization and memory, addressing modes, logic and control, table processing, and I/O control processes will be examined. Macros, program modules, and interrupts will be studied. Extensive hands-on computer projects implementing course objectives will be assigned. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: COMP 142) General Education: (MJC-GE: D2)

CSCI 274—WINDOWS PROGRAMMING WITH VISUAL STUDIO 4 UNITS
54 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 291 - Windows Programming With Visual C++
Prerequisite: Satisfactory completion of CSCI 271 (Formerly CMPSC 205).
Windows Programming using the Microsoft Visual Studio environment. Review of object-oriented programming and problem solving concepts. Emphasis on designing user applications, event-driven programming, debugging and exception handling, object-based file handling, database access, web-based and smart device applications, and advanced programming techniques. Hands-on computer programming projects will be required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: D2)

CSCI 290—COMPUTER SCIENCE FINAL PROJECT 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as CMPSC 294
Limitations on Enrollment: The students are required to bring the skills of their individual specializations, based on their 18 Hours of coursework in either Information Systems, Networking, or Programming to form teams and solve a collaborative real-world IT industry level of problem application.
Culminating experience for students pursuing an Associate of Science degree in Computer Science. Objectives of degree courses will be integrated into a final managed project advised by one or more Computer Science faculty. Effective project and team management will be emphasized. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)
<table>
<thead>
<tr>
<th>COURSES</th>
<th>D: DANCE</th>
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<tbody>
<tr>
<td><strong>DANCE</strong></td>
<td>Dance as an academic discipline focuses on dance as a performing art, as well as its social functions in other areas, including education, health, cultural studies, art, history, and the science of human movement.</td>
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**DANCE 102—INTRODUCTION TO WORLD DANCE**  
Formerly listed as: THETR 194/PEC 194: Introduction to World Dance  
54 Lecture Hours  
A survey of dance and its development as an art form through social, political and cultural context. Investigation of cultural traditions and styles, values, aesthetics and mores will be explored. Field trips might be required. Not repeatable. (A-F Only) **Transfer**: (CSU, UC) **General Education**: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)  

**DANCE 111—MODERN DANCE 1**  
Formerly listed as: THETR 185/PEC 122: Modern Dance 1  
54 Lab Hours  
Basic modern dance technique, beginning composition, improvisation, dance history, and philosophy. Dance as an art form and as recreation. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 112—MODERN DANCE 2**  
Formerly listed as: THETR 186/PEC 123: Modern Dance 2  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 111  
Introduction, exploration, and experience in choreography and performance. Movement through space, energy and time, and compositional form. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 113—MODERN DANCE 3**  
Formerly listed as: THETR 187/PEC 124: Modern Dance 3  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 112  
Emphasis on advanced technical and artistic performance skills, composition, improvisation, partnering, and dance history. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 114—MODERN DANCE 4**  
Formerly listed as: THETR 176/PEC 149: Modern Dance 4  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 113  
Learn, practice and apply intermediate modern dance skills learned in Modern Dance 3 toward the refinement of technical and artistic expression characteristic of advanced level technique. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 121—BALLET 1**  
Formerly listed as: PEC – 133/THETR 189: Ballet 1  
54 Lab Hours  
Fundamental ballet technique and terminology. Students are required to have appropriate dance shoes and dance attire. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 122—BALLET 2**  
Formerly listed as: PEC 127/THETR 177: Ballet 2  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 121  
Intermediate level ballet technique and terminology. Students are required to have appropriate dance shoes and dance attire. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 123—BALLET 3**  
Formerly listed as: THETR 117/PEC 139: Ballet 3  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 122  
Intermediate/Advanced level ballet technique and terminology. Audition and instructor approval required. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 124—BALLET 4**  
Formerly listed as: THETR 118/PEC 146: Ballet 4  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 123  
Advanced level ballet technique and terminology. Audition and instructor approval required. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 131—JAZZ 1**  
Formerly listed as: THETR 188/PEC 126: Jazz 1  
54 Lab Hours  
Beginning Technique of Jazz Dance with explorations into contemporary derivations of jazz. Emphasis on technical style of this form, and to the interrelationships of music and movement. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)  

**DANCE 132—JAZZ 2**  
Formerly listed as: THETR 129/PEC 129: Jazz 2  
54 Lab Hours  
**Prerequisite**: Satisfactory completion of DANCE 131  
Intermediate technique of Jazz Dance with explorations into contemporary derivations of jazz. Emphasis on technical style of the form and the interrelationship of music and movement. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer**: (CSU, UC) **Local Requirement**: (Activities)
DANCE 133—JAZZ 3 INTERMEDIATE/ADVANCED
Formerly listed as: THETR 130/PEC 132: Jazz 3 Intermediate/Advanced
54 Lab Hours
Prerequisite: Satisfactory completion of DANCE 132
This course is a continuation of Jazz 2. This course is a combined intermediate and advanced Jazz Dance Technique class that will continue to build on dance terminology in theory and practical training. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 134—JAZZ 4 ADVANCED
54 Lab Hours
Prerequisite: Satisfactory completion of DANCE 133.
Advanced technique of jazz Dance with explorations into contemporary derivations of jazz. Emphasis on advanced technical style of the form and the interrelationships of music and movement. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 141—HIP HOP
Formerly listed as: THETR 170/PEC 120: Hip Hop
54 Lab Hours
Fundamental skills of hip hop dance derived from the current dance vernacular and culture. Dance movement education, exploration, and recreation. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 151—MOVEMENT FOR THE PERFORMING ARTIST
Formerly listed as: THETR - 195: Movement for the Performing Artist
45 Lecture Hours, 27 Lab Hours
Introduction to the fundamentals of movement as applied to body awareness, motor efficiency, and basic compositional components. Exploration of qualities and dynamics in performance through technique, improvisation, and compositional studies. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 155—FUNDAMENTALS OF CHOREOGRAPHY 1
Formerly listed as: THETR 13: Fundamentals of Choreography 1
18 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete DANCE 111
Introduction to the creative process of composing dance. Compositional components will be explored, crafted, and aesthetically analyzed. The elements of dance and performance qualities will be explored through technical practice, improvisation, and compositional studies. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 181—DANCE REHEARSAL & PERFORMANCE 1
Formerly listed as: THETR 151: Dance Rehearsal & Performance 1
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.
This course is designed to provide students with the opportunity for intensive preparation, performance, and appraisal of choreography for public performances. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 182—DANCE REHEARSAL & PERFORMANCE 2
Formerly listed as: THETR 152: Dance Rehearsal & Performance 2
108 Lab Hours
Prerequisite: Satisfactory completion of DANCE 181
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.
Study, production and performance of dance. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 183—DANCE REHEARSAL & PERFORMANCE 3
Formerly listed as: THETR 154: Dance Rehearsal & Performance 3
108 Lab Hours
Prerequisite: Satisfactory completion of DANCE 182
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.
This course is designed to provide students with the opportunity to participate in a concert dance production as a dancer and/or choreographer. Field trips might be required. Not repeatable. (A-F or NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 184—DANCE REHEARSAL & PERFORMANCE 4
Formerly listed as: THETR 168: Dance Rehearsal & Performance 4
108 Lab Hours
Prerequisite: Satisfactory completion of DANCE 183.
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.
This course is designed to provide students with the opportunity to participate in an intensive preparation for public performance as choreographed by faculty, visiting artists, and/or students. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 187—CONTEMPORARY POP DANCE REHEARSAL AND PERFORMANCE
Formerly listed as: THETR 153: Contemporary Pop Dance Rehearsal and Performance
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.
Contemporary Pop dance rehearsal and public performance. Audition required. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)
COURSES

DANCE 188—DANCE WORKSHOP PERFORMANCE 2 UNITS

Formerly listed as: THETR 155: Dance Workshop Performance
108 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.

This course provides the opportunity for students to create original choreography and perform in a student showcase. All phases of the dance concert process from auditions to rehearsals to backstage preparation will be covered. Audition required. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

DANCE 189—DANCE REPETORY TOURING COMPETITION 1 UNIT

Formerly listed as: THETR 149: Dance Repertory Touring Competition
54 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.

Preparation of dance participants for attendance at the American College Dance Festival and other competitive conferences. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

EASCI (EARTH SCIENCE)

EASCI 161—EARTH SCIENCE 4 UNITS

54 Lecture Hours, 54 Lab Hours

An introductory study of the several branches of earth science: geology, oceanography, meteorology, and astronomy. Topics include the scientific method, natural resources, minerals, rocks, volcanism, plate tectonics, earthquakes, weathering, erosion, geological time, fresh water, ocean water, ocean currents, the ocean floor, atmosphere, clouds, storms, climate, the sun, the moon, the solar system, stars, interstellar matter, and the formation of the universe. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ESC 33) (C-ID: GEOL 121) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

EASCI 162—INTRODUCTION TO OCEANOGRAPHY 4 UNITS

54 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EASCI 161 and satisfactorily complete MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.

An introductory study of oceanography, the study of the world’s oceans. Topics include the ocean’s role in the earth system, marine geography, ocean basins and plate tectonics, ocean water, ocean chemistry, marine sediments, ocean-atmosphere interaction, ocean currents, ocean waves and tides, coastal processes, marine ecosystems, ocean life, ocean and climate, oceanographic techniques, and ocean stewardship. Lab activities emphasize gathering and analysis of oceanographic data to understand and predict oceanographic phenomena. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ESC 50) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

ECON (ECONOMICS)

ECON 101—PRINCIPLES OF MACROECONOMICS 3 UNITS

54 Lecture Hours

Prerequisite: Satisfactory completion of MATH 29 or MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 70.

Introduction to macroeconomic theory in the context of managed market economies. Covers basic concepts in economics, particularly those relating to aggregate economic analysis, such as scarcity, trade-offs, and opportunity costs. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ECON 10) (C-ID: ECON 202) General Education: (MJC-GE: B) (CSU-GE: D2) (IGETC: 4B)

ECON 102—PRINCIPLES OF MICROECONOMICS 3 UNITS

54 Lecture Hours

Formerly listed as: ECON 102: Economic Principles: Microeconomics

Prerequisite: Satisfactory completion of MATH 29 or MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 70.

An introductory course focusing on individual economic decision-making. Topics include scarcity, opportunity costs, comparative advantage, market structure and market failure, elasticity, cost theory, price and output determination under various market structures and factor markets. Related topics such as international trade, public choice, income distribution, externalities and government regulation may be included. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ECON 11) (C-ID: ECON 201) General Education: (MJC-GE: B) (CSU-GE: D2) (IGETC: 4B)

ECON 115—ECONOMIC HISTORY OF THE UNITED STATES 3 UNITS

54 Lecture Hours

Also offered as: HIST - 115

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

Analysis of origins and development of business, infrastructure, labor, and agriculture from colonial period to present. Emphasis on federal government’s role in development and regulation of business, infrastructure, labor and agriculture; government’s role in national economic policy. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D2, D6) (IGETC: 4B, 4F)
EHS (ENVIRONMENTAL HORTICULTURE SCIENCES)

In this program the student will develop skills in plant recognition and use, nursery practices, and landscape design sufficient to enter the landscape or nursery business or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

EHS 50—BEGINNING ORNAMENTAL GARDENING 2 UNITS
36 Lecture Hours
Formerly listed as OH 50
Preparation for the fundamentals of indoor and outdoor gardening, planting for patios and balconies, gardening in containers and simple landscaping. Designed for anyone interested in gardening, regardless of prior experience or size of garden. Field trips might be required. Not repeatable. (A-F or P/NP).

EHS 201—PLANT IDENTIFICATION & USAGE 1 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Satisfactory completion of EHS 210 and/or PLSC 200.
Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurserymen & Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Tests Plant Lists. Covers those plants best observed and studied in the spring of the year. Field trips required. Will require Saturday labs. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: AG-EH 108L)

EHS 202 PLANT IDENTIFICATION & USAGE 2 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EHS 210 and/or satisfactorily complete PLSC 200.
Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurserymen & Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) Certification Tests Plant Lists. Covers those plants best observed and studied in the fall of the year. Will require Saturday labs. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU, UC) (C-ID: AG-EH 112L)

EHS 210—INTRO TO ENVIRONMENTAL HORTICULTURE SCIENCE 3 UNITS
36 Lecture Hours, 54 Lab Hours
A general course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and house plants, floral design, plant identification, turfgrass installation and care, and survey of career opportunities. Saturday labs required. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

EHS 215—LANDSCAPE DESIGN 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EHS 201 and satisfactorily complete EHS 202.

The study and implementation of the art and science of landscape design, including principles of design, the design process, drafting, graphics, and presentation methods. Project emphasis is placed upon residential and small commercial sites. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

EHS 220—TURFGRASS MANAGEMENT 3 UNITS
36 Lecture Hours, 54 Lab Hours
Maintenance and management of turfgrasses that include sports athletic fields, golf courses, parks, cemeteries, commercial, and residential lawns. Discussion will focus on identification, installation, cultural requirements and maintenance practices. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

EHS 235—PLANT PROPAGATION/PRODUCTION 3 UNITS
36 Lecture Hours, 54 Lab Hours
Also offered as: PLSC 235
Formerly listed as: EHS - 235: Plant Propagation/Production Planting & Varieties
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EHS 210 or satisfactorily complete PLSC 200.
Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control, structures and site layout. Preparation and use of propagating and planting mediums. Use and maintenance of common tools and equipment. Regulations pertaining to plant production. Students will need pruning shears, a grafting knife and a budding knife. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU) (C-ID AG - EH 116L)

EHS 276—LANDSCAPE MAINTENANCE 3 UNITS
36 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EHS 210.
Enhancing the function and aesthetic value of public and private landscapes by applying appropriate landscape maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

EHS 278—LANDSCAPE CONSTRUCTION AND INSTALLATION 3 UNITS
36 Lecture Hours, 54 Lab Hours
Fundamentals of landscape construction, including soil preparation, paving and construction materials, hand and power tool use, turf and plant installation, plan reading, estimating and bid preparation; also covers local codes and state requirements and exposes students to the C-27 Landscaping Contractor’s License exam. Field trips are required. (A-F Only) Transfer: (CSU)

EHS 280—PRINCIPLES OF FLORAL ART AND DESIGN 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: EHS 280: Beginning Floral Design
An in-depth study of the principles, and elements of design used in intercultural floral composition. Students have an opportunity to express themselves through the medium of floral materials. Materials fee required. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU) Local Requirement: (Activities)
EHS 281 — ADVANCED FLORAL DESIGN  
36 Lecture Hours, 54 Lab Hours  
Prerequisite: Satisfactory completion of EHS 280  
Advanced floral design theory, techniques and skills in the floral industry, including wedding, sympathy, party, holiday, high style and advanced floral designs. Techniques include working with the customer, consultations, pricing and use of computers and other business machines. Construction and servicing of weddings, funerals, party and holiday floral displays. Field trips required. Materials fee required. Field trips are not required. Not repeatable. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ELTEC (ELECTRONICS TECHNOLOGY)

ELTEC 205 — ELECTRONICS FABRICATION AND ASSEMBLY TECHNIQUES  
36 Lecture Hours, 54 Lab Hours  
Introduction to fabrication and assembly techniques used in the electronics industry. Soldering, circuit board repair, and component identification, manual and automated techniques used in circuit assembly and product manufacture are included. Materials fee required. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ELTEC 208 — FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS  
36 Lecture Hours, 54 Lab Hours  
Formerly listed as: ELTEC - 208: The World of Electricity and Electronics  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 20.  
An overview of electrical and electronic phenomena as applied to common consumer and industrial devices. The course examines the physical nature and laws of electricity and magnetism and the application of the scientific method. DC and AC circuits and their characteristics are examined, predicted, and measured. Electronic test equipment and voltage sources are utilized in the construction, troubleshooting and testing of electrical and electronic circuits. The historical development and the socioeconomic aspects of the “electronic age” are also examined. This course is approved by the State of California for the DAS Electricians Apprenticeship Program. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: A)

ELTEC 212 — DIGITAL PRINCIPLES AND CIRCUITS  
36 Lecture Hours, 54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ELTEC 208 and satisfactorily complete MATH 30 (formerly MATH 70).  
Introduction to digital circuits. Use and application of digital components in electronic devices controls and computers. Study of number systems, basic logic gates, counters, shift registers, A/D and D/A interfaces, and memories. Special emphasis on interfacing digital circuits to real-world input and output devices. Introduction to programmable logic devices. Prepares students for microprocessors and PLCs. This course is approved by the State of California for the DAS Electricians Apprenticeship Program. Materials fee required. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ELTEC 214 — MICROPROCESSOR PROGRAMMING AND INTERFACING  
4 UNITS  
36 Lecture Hours, 108 Lab Hours  
Also offered as CMPET 214  
Prerequisite: Satisfactory completion of ELTEC 212 or CMPET 212.  
Introduction to the structure and operation of microprocessors as controllers for today's electronic devices and systems. Basic microprocessor hardware including memories, registers, counters, input/output ports, decoders, and arithmetic logic using the popular PIC RISC microcontroller. Emphasis on interfacing to electronic hardware. Materials Fee Required. (A-F Only) Not repeatable. Transfer: (CSU)

ELTEC 221 — INSTRUMENTATION DEVICES AND SYSTEMS  
3 UNITS  
36 Lecture Hours, 54 Lab Hours  
Prerequisite: Satisfactory completion of ELTEC 208.  
An introduction to industrial instrumentation devices and systems. Principles and operation of mechanical and electrical transducers. Analysis of industrial instrumentation and control systems. Course is approved by the State of California for the DAS Electricians Training Program. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ELTEC 223 — INDUSTRIAL ELECTRICAL COMPONENTS AND CONTROL DEVICES  
3 UNITS  
36 Lecture Hours, 54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ELTEC 208.  
An introduction to common components and control devices found in the manufacturing and processing industry. Content includes basic terminology, component identification, manufacturer’s specifications, and maintenance procedures for the components and devices. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ELTEC 225 — RESIDENTIAL WIRING  
3 UNITS  
27 Lecture Hours, 81 Lab Hours  
Practical approach to the application of electrical principles, electrical code, and basics on residential wiring design applied to one and multifamily dwellings. Field trips might be required. Not repeatable. Lecture/Lab (A-F Only) Transfer: (CSU)

ELTEC 226 — MOTORS, CONTROLS AND CONTROLLERS  
3 UNITS  
36 Lecture Hours, 54 Lab Hours,  
Prerequisite: Satisfactory completion of ELTEC 208.  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ELTEC 223 and/or satisfactorily complete ELTEC 230.  
An introduction to electrical motors and control systems. Emphasis on basic control design and troubleshooting. Basic use and programming of modern control devices such as VFDs. (Course meets DAS Electrician Trainee and Journey Level Recertification CA State Requirements) Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU)
ELTEC 229—COMMERCIAL & INDUSTRIAL WIRING 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of ELTEC 208.

Essential insights and practices in Commercial and Industrial Wiring that develop skills for the electrical trade. Topics include the application of basic concepts in the design of electrical systems in compliance of the NEC as it is applied in California, implementation of accepted trade practices used in installations, and common troubleshooting techniques. (Course meets DAS Electrician Trainee and Journey Level Re-certification CA State Requirements). Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

ELTEC 230—BLUEPRINT READING FOR ELECTRICIANS 2 UNITS
36 Lecture Hours
Analysis of electrical blueprints and other types of related schematics such as projections, themes of construction blueprints, machinery, schematics of control and instrumentation. Intended for electricians, electrical apprentices, and technical students. Reading and interpretation of electrical blueprints, and how to sketch simple electrical installation or control diagrams. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

ELTEC 232—INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ELTEC 208.

Introduction to the basic concepts of Programmable Logic Controllers. Installation, programming, maintaining, and troubleshooting of micro-sized programmable logic controller systems. **This course is approved by the state of California for the DAS Electrician Trainee Program. (A-F or P/NP) Not repeatable. Transfer: (CSU)

ELTEC 234—INTRODUCTION TO PACS: PROGRAMMABLE AUTOMATION CONTROLLERS 3 UNITS
Formerly listed as: ELTEC 234: Advanced Topics in Programmable Logic
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ELTEC 232.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ELTEC 232.

Introduction to the basic concepts of Programmable Automation Controller (PAC). Installation, programming, maintaining and troubleshooting PAC systems. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ELTEC 235—NEC: NATIONAL ELECTRICAL CODES 4 UNITS
72 Lecture Hours
Interpretation and application of the California Code of Regulations - Title 24 - Part 3 (California application of the National Electrical Code) which regulates the installation and maintenance of electrical circuits and equipment. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ELTEC 236—HMI & INDUSTRIAL COMMUNICATIONS 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ELTEC 232.

Provides students with the skills in designing and using Human Machine Interface (HMI) systems using industrial communications. The course provides basic concepts, features and operations of HMI systems using typical Programmable Logic Controllers (PLCs), Programmable Automation Controllers (PACs) and other devices. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

ELTEC 265—TROUBLESHOOTING TECHNIQUES 1 UNIT
18 Lecture Hours
Troubleshooting methods and techniques are presented and practiced. Covers issues and problems related to industrial equipment, processes, facilities, and everyday life. Single and Multiple-solution problem-solving techniques, brainstorming, and "out of the box" thinking methods presented and practiced. This course is approved by the State of California for the DAS Electricians Training program. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

ELTEC 300—SURVEY OF APPLIED TECHNOLOGIES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Survey of applied technologies in the Advance Manufacturing, Transportation, or Construction Industry. Topics include electricity, small engines/industrial mechanics, common computer software and robotics. Field trips might be required. Not repeatable. (A-F Only) Lecture/Lab.

ELTEC 320—ELECTRICAL SAFETY 1 UNIT
18 Lecture Hours
Introduction to electrical safety. Types of electrical risks and injuries that an electrical incident can produce. Development of skills necessary to recognize and evaluate electrical hazards, and how to control these hazards by following appropriate procedures and using personal protective equipment. This course covers basic OSHA regulations related to electrical safety (1910 Subpart S, and 1926 Subpart K) and NFPA 70E “Standard for Electrical Safety in the Workplace”. Field trips are not required. (A-F Only) Not repeatable.

ELTEC 321—PHOTOVOLTAIC SYSTEMS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of ELTEC 208.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete AGM 225 or satisfactorily complete ELTEC 229.

Study of OFF-Grid, Interconnected (Grid-tied), and Hybrid photovoltaic systems, including the study of locations and positioning for PV arrays, electrical and mechanical design and integration (including hands-on experiences), Safety rules and regulations related to this industry, financial topics (systems estimates and rebates), and an overview of NABCEP certification requirements. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

ELTEC 322—TECHNICAL MEASUREMENTS 3 UNITS
54 Lecture Hours
This course offers step-by-step procedures for technical measurements, calculations, and applications for electrical and mechanical technicians. The course will include methods for solving practical problems involving accurate measurements, estimations, and application of formulas. Methods will include unit conversions, measurement tolerances, accuracy, repeatability, ratios, and graphing. Field trips are not required. Not repeatable. (A-F or P/NP)
ENGLISH (ELIC) LANGUAGE INSTRUCTION FOR COLLEGE

This program teaches academic language skills to transfer or degree-oriented students who are learners of the English language. Students can take courses in reading/composition, grammar, and listening/speaking.

Please note: Take the Accuplacer ESL test for placement into the program.

ELIC (ENGLISH LANGUAGE INSTRUCTION FOR COLLEGE)

ELIC 20—LOW INTERMEDIATE ACADEMIC READING AND COMPOSITION A 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of ELW 906 or qualification by MJC assessment process.
Introduction to and development of skills in active reading and composition incorporating analysis, interpretation, use of academic vocabulary, cited sources, and self-editing. Focus is on summary/response reading and text-based compositions of about 300 words. Field trips are not required. Not repeatable. (A-F or P/NP)

ELIC 21—LOW INTERMEDIATE ACADEMIC READING AND COMPOSITION B 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of ELIC 20.
Continued development of skills in active reading and composition incorporating analysis, interpretation, use of academic vocabulary, cited sources, and self-editing. Focus is on summary/response reading and text-based compositions of about 400 words. Field trips are not required. Not repeatable. (A-F or P/NP)

ELIC 22—LOW INTERMEDIATE - INTEGRATED GRAMMAR 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of ELW 906 or qualification by MJC assessment process.
Low intermediate level grammar course for persons whose first language is not English. Emphasis on application of grammar to writing and increased focus on error awareness and editing skills. Field trips might be required. Not repeatable. (A-F or P/NP)

ELIC 30—INTERMEDIATE ACADEMIC READING AND COMPOSITION A 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of ELIC 21 or qualification by the MJC assessment process.
Further development of skills in active reading and composition incorporating analysis, interpretation, use of academic vocabulary, cited sources, and self-editing. Focus is on summary/response reading and text-based compositions of approximately 600 words. Field trips are not required. Not repeatable. (A-F or P/NP)

ELIC 31—INTERMEDIATE ACADEMIC READING AND COMPOSITION B 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of ELIC 30 or qualification by the MJC assessment process.
Development of skills in active reading and composition incorporating analysis, interpretation, use of academic vocabulary, cited sources, and self-editing. Focus is on summary/response reading and text-based compositions of approximately 800 words. Field trips are not required. Not repeatable. (A-F or P/NP)

**ELIC 32—INTERMEDIATE - INTEGRATED GRAMMAR** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 22 or qualification by the MJC assessment process.

Intermediate level grammar course for persons whose first language is not English. Emphasis on application of grammar to writing and increased focus on error awareness and editing skills. Field trips are not required. Not repeatable. (A-F or P/NP)

**ELIC 140—ADVANCED - ACADEMIC READING AND COMPOSITION** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 31 or qualification by the MJC assessment process.

Development of active critical reading strategies and composition skills incorporating analysis, interpretation, summary and paraphrase of text, use of attributed outside sources, academic vocabulary, and self-editing strategies. Focus is on expository summary/response reading and compositions of approximately 1,000 words (3-4 pages). Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELIC 141—ADVANCED HIGH - ACADEMIC READING AND COMPOSITION** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 140 or qualification by the MJC assessment process.

Refinement of active reading strategies and composition skills incorporating advanced analysis, argumentation, interpretation, summary and paraphrase of text, use of outside sources and documentation, academic vocabulary usage, and self-editing strategies. Focus is on argumentative summary/response reading and compositions of 750-1,000 words. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELIC 142—HIGH INTERMEDIATE - INTEGRATED GRAMMAR** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 32 or qualification by the MJC assessment process.

High intermediate level grammar course for persons whose first language is not English. Emphasis on application of grammar to writing and increased focus on error awareness and editing skills. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELIC 150—COLLEGIATE - ACADEMIC READING AND COMPOSITION** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 141 or qualification by the MJC assessment process.

Development of collegiate academic skills in reading, composition, critical thinking, information literacy, MLA documentation, academic vocabulary, and editing for English language learners. Focus is on analytical summary/response and text-based expository and argumentative compositions of 1,000-1,250 words. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELIC 151—COLLEGIATE HIGH - ACADEMIC READING AND COMPOSITION** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 150 or qualification by the MJC assessment process.

Refinement in collegiate academic skills in reading, composition, critical thinking, information literacy, MLA documentation, academic vocabulary, and editing for English language learners. Focus is on analytical summary/response, text-based compositions of 1,000-1,250 words with an introduction to writing a research paper. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELIC 152—ADVANCED - INTEGRATED GRAMMAR** 4 UNITS

72 Lecture Hours

Prerequisite: Satisfactory completion of ELIC 142 or qualification by the MJC assessment process.

Advanced level grammar course for persons whose first language is not English. Emphasis on application of grammar to writing and increased focus on error awareness and editing skills. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

**ELW (ENGLISH FOR LIFE AND WORK NON-CREDIT)**

The Literature and Language Arts division offers two programs in ELW: a non-credit, adult basic education program of courses on six levels, and a six-level credit program intended for students who plan to pursue other academic and vocational study at the college. Most ELW courses are not degree-applicable.

**ELW 901—BEGINNING ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL 901: ESL: Beginning, ESL 901: ESL: Beginning English for Life and Work

90 Lecture Hours

Beginning English for non-English speakers. Emphasis on beginning spoken English and basic literacy. Course is repeatable. Field trips might be required. (Non-Graded course)

**ELW 902—ELEMENTARY ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL 902: ESL: Elementary English for Life and Work, ESL 902: ESL: Lower Elementary

90 Lecture Hours

Prerequisite: Satisfactory completion of ELW 901. Elementary English with emphasis on spoken English for practical needs and preparation for transition into academic ESL classes. Course is repeatable. Field trips might be required. (Non-Graded course)

**ELW 903—HIGHER ELEMENTARY ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL 903: ESL: Higher Elementary, ESL 903: ESL: Higher Elementary English for Life and Work

90 Lecture Hours


**Prerequisite:** Satisfactory completion of ELW 902.

High elementary level English for speakers of other languages. Instruction and practice in listening, speaking, reading, and writing. Preparation for transition into academic ESL classes. Course is repeatable. Field trips might be required. (Non-Graded course)

**ELW 904—INTERMEDIATE ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL 904: ESL: Intermediate, ESL 904: ESL: Intermediate English for Life and Work

90 Lecture Hours

**Prerequisite:** Satisfactory completion of ELW 903.

Intermediate level English for speakers of other languages. Instruction and practice in listening, speaking, reading, and writing with a greater emphasis on academic preparation. Course is repeatable. Field trips might be required. (Non-Graded course)

**ELW 905—HIGH INTERMEDIATE ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL 905: ESL: High Intermediate English for Life and Work, ESL 905: English At Work 1

90 Lecture Hours

**Prerequisite:** Satisfactory completion of ELW 904.

High intermediate level English for speakers of other languages. Instruction and practice in listening, speaking, reading, and writing with a greater emphasis on preparation into an academic language program. Course is repeatable. Field trips might be required. (Non-Graded course)

**ELW 906—LOW ADVANCED ENGLISH FOR LIFE AND WORK** 0 UNITS

Formerly listed as: ESL - 906: ESL: Low Advanced English for Life and Work, ESL - 906: English At Work 2

90 Lecture Hours

**Prerequisite:** Satisfactory completion of ELW 905.

Low advanced level English for speakers of other languages. Instruction and practice in listening, speaking, reading, and writing with emphasis on transition to academic programs, the workplace, and job-training courses. Course is repeatable. Field trips might be required. (Non-Graded course)

**EMS (EMERGENCY MEDICAL SERVICE)**

**EMS 350—FIRST RESPONDER WITH HEALTHCARE PROVIDER CPR** 3 UNITS

54 Lecture Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to satisfactorily complete AP 50 and/or satisfactorily complete MDAST 121.

An entry-level course designed for firefighters and other emergency workers who will respond to medical emergencies ahead of ambulance transportation. Focuses on stabilization of ill or injured patients prior to arrival of more advanced life support. This course meets the basic requirements for most volunteer fire agencies as well as some paid fire departments. Materials fee required. (A-F Only) Not repeatable. **Transfer:** (CC EMS 157)

**EMS 380—BASIC ECG INTERP/INTRO TO CARDIAC CARE** 3 UNITS

54 Lab Hours

**Recommended for Success:** Before enrolling in this course, students are strongly advised to possess an understanding of basic medical terminology.

Designed for students who have had little or no formal training in arrhythmia diagnosis. Emphasis on diagnosing the major and life threatening arrhythmias incorporating patient assessment and treatment. Field trips might be required. (AF or P/NP) Not repeatable.

**EMS 389—EMERGENCY MEDICAL TECHNICIAN 1-CLINICAL** 0.5 UNITS

27 Lab Hours

Formerly listed as: EMS 389: Emergency Medical Technician 1- Lab

**Prerequisite:** Satisfactory completion of EMS 350.

**Corequisite:** Concurrent enrollment in EMS 390.

This course addresses the supervisor clinical portion of a state approved Basic EMT Program. This course is a co-requisite to the EMS 390 which places the student in a practical environment. Students will observe and perform patient diagnostics and treatment under the direct supervision of a preceptor. Field trips are not required. (A-F Only) Not repeatable.

**EMS 390—EMERGENCY MEDICAL TECHNICIAN 1** 6 UNITS

90 Lecture Hours, 54 Lab Hours

**Corequisite:** Concurrent enrollment in EMS 389.

**Limitations on Enrollment:** Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross.

Students must also provide certification of completion of a 40-hour First Responder course which meets State of California Fire Marshal training level.

Prepares the student for certification as an Emergency Medical Technician I. Students are trained to provide basic life support emergency care as mandated by the California Emergency Medical Services authority. Materials fee required. Field trips are not required. (A-F Only) Not repeatable. (CC EMS 4)

**EMS 391—EMT 1-REFRESHER COURSE** 1.5 UNITS

27 Lecture Hours

**Prerequisite:** Satisfactory completion of EMT 390 or equivalent.

Provides new and updated information for the Emergency Medical Technician, as well as reinforcement of basic knowledge and skills. Meets requirements for recertification as an EMT in California. (A-F Only) Not repeatable.
ENGL (ENGLISH)

PLACEMENT REQUIREMENTS FOR ENGLISH COURSES

For students who have not already completed an English composition course at Modesto Junior College or at any other college, placement in ENGL 49, 50, 100, and 101 requires the English Placement Examination.

- ENGL 50: Placement by examination or completion of ENGL 49 with a grade of C or better.
- ENGL 100: Placement by examination or completion of ENGL 45 or ENGL 49 with a grade of C or better.
- ENGL 101: Placement by examination or completion of ENGL 45 or ENGL 50 with a grade of C or better.
- ENGL 103: Completion of ENGL 101 with a grade of C or better.

ENGL 45—ACCELERATED READING, WRITING, AND REASONING 6 UNITS
108 Lecture Hours
This is an accelerated composition class that takes the place of the English 49 and English 50 two course sequence. It focuses on the college level reading, writing, and critical thinking skills students will need for English 101 with more structure, time, tutoring, and support. Students will learn to critically read and engage in text-based writing with academic texts. Field trips are not required. Not repeatable. (A-F or P/NP)

ENGL 48—GRAMMAR REVIEW 1 UNIT
18 Lecture Hours
Review of the fundamentals of standard English grammar. They will practice recognizing and correcting errors in grammar and usage. Field trips are not required. Not repeatable. (A-F or P/NP)

ENGL 49—BASIC ENGLISH SKILLS 5 UNITS
90 Lecture Hours
Corequisite: Concurrent enrollment in or satisfactory completion of READ 40 or qualification by the MJC assessment process.
Fundamentals of writing. Emphasis on improving writing fluency, developing paragraphs and short essays, and learning to edit for spelling, punctuation and word usage. 6,000 word writing requirement including both in-class and out-of-class essays. Field trips might be required. (P/NP Only) Not repeatable. Transfer: (CC ENGL 650)

ENGL 50—BASIC COMPOSITION AND READING 5 UNITS
90 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 49 or qualification by the MJC assessment process.
Basic English skills in writing, reading, and thinking: writing effective sentences, organizing ideas into paragraphs and essays, utilizing fundamentals of English syntax, reading academic texts, and building vocabulary. Emphasis on basic critical thinking and study skills as well. 6,000 word writing requirement including some in-class writing. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CC ENGL 151)

ENGL 100—INTENSIVE READING, WRITING, AND REASONING 5 UNITS
90 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 45 or ENGL 49 or qualification by the MJC assessment process.
An accelerated alternative to the ENGL 50 and ENGL 101 sequence that focuses on development of reading, writing, and critical thinking skills necessary to demonstrate competency in college-level composition. Provides a highly structured, intensive, and supportive learning framework with a focus on academic texts and the use of a variety of sources to write a college-level research paper. Includes an 8,000 word writing requirement, at least 6,000 of which must be in essays with a developed thesis. 2,000-3,000 of the 8,000 must be research-based writing with proper MLA formatting and documentation. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU) (C-ID: ENGL 100) General Education: (MJC-GE: D1)

ENGL 101—COMPOSITION AND READING 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 45 or ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete READ 184.
Fundamental skills in reading and writing at the college level. Emphasis on exposition, argument, research, and information competency. 8,000 word writing requirement, at least 6,000 of which must be in essays that have a developed thesis. 2,000 - 3,000 words of the 8,000 must be research-based writing with MLA formatting and documentation. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 1A) General Education: (MJC-GE: D1) (CSU-GE: A2) (IGETC: 1A) (C-ID: ENGL 100)

ENGL 102—ADVANCED COMPOSITION & INTRODUCTION TO LITERATURE 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101 or qualification by the MJC assessment process.
Advanced composition with an introduction to literary analysis of fiction, poetry, and drama. Intended primarily for university Transfer students, but open to any qualified student. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 1B) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) (C-ID: ENGL 120)

ENGL 103—ADVANCED COMPOSITION & CRITICAL THINKING 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101 or qualification by the MJC assessment process.
Advanced composition course that focuses on the techniques and principles of argumentation and offers instruction in analytical evaluation of texts, research strategies, and proper documentation. Examines style, diction, inference, evidence, reasoning, and rhetorical strategies of written argument. 8,000 word writing requirement, at least 6,000 of which must be in essays that have a developed thesis. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 1C) General Education:
COURSES

ENGL 105—CREATIVE WRITING: POETRY 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101.
Instruction and practice in writing poetry. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C)

ENGL 106—CREATIVE WRITING: SHORT FICTION 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101.
Instruction and practice in writing shorter forms of fiction. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C)

ENGL 111—CREATIVE WRITING: CREATIVE NONFICTION 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 101.
Instruction and practice in writing Creative Nonfiction, also known as Literary Nonfiction, with an emphasis on the personal essay. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C)

ENGL 112—INTRODUCTION TO THE NOVEL AND SHORT STORY 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Formerly listed as: ENGL 112: Introduction to Novel and Short Story
This course is an introduction to the novel and short story with emphasis on intelligent reading, analysis, and discussion of a range of fiction representing various types and traditions. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B)

ENGL 114—INTRODUCTION TO POETRY 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
This course covers analysis and discussion of poetry. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B)

ENGL 116—INTRODUCTION TO DRAMA 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.

Analysis and discussion of selected plays from classical Greek period to present. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B)

ENGL 131—INTRODUCTION TO WORLD LITERATURE 1 3 UNITS
54 Lecture Hours
Formerly listed as: ENGL 131: Introduction to World Literature to 1500
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
A comparative study of selected works, in translation and in English, of literature, including works from Asia, the Middle East, Europe, and other areas, from antiquity to the mid-seventeenth century. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B) (C-ID: ENGL 140)

ENGL 132—INTRODUCTION TO WORLD LITERATURE 2 3 UNITS
54 Lecture Hours
Formerly listed as: ENGL 132: Introduction to World Literature (1500 to Present)
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
A comparative study of selected works, in translation and in English, of literature, including works from Asia, the Middle East, Europe, and Latin America from the mid-seventeenth century to present. Note: students do not have to have taken ENGL 131 to enroll in ENGL 132. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) (CC ENGL 81) (C-ID: ENGL 145) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B)

ENGL 135—SURVEY OF AMERICAN LITERATURE TO 1850 3 UNITS
54 Lecture Hours
Formerly listed as: ENGL 135: American Literature to 1850
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
Survey of American literature from its beginning to mid-nineteenth century. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) (CC ENGL 17) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B) (C-ID: ENGL 130)

ENGL 136—SURVEY OF AMERICAN LITERATURE: 1850 TO THE PRESENT 3 UNITS
54 Lecture Hours
Formerly listed as: ENGL 136: American Literature: 1850 to the Present
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
Survey of American literature from mid-nineteenth century to the present. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CU, UC) (CC ENGL 18) General Education: (MJC-GE: C) (CSU-GE: C) (IGETC: 3B) (C-ID: ENGL 135)
ENGL 137—SURVEY OF ENGLISH LITERATURE TO THE LATE 18TH CENTURY
54 Lecture Hours
Formerly listed as: ENGL 137: Survey of English Lit to 18th Century, ENGL 137: Survey of English Literature to the 18th Century
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
Survey of English literary history from the Anglo-Saxons to the late Eighteenth Century with detailed study of the writings of Chaucer, Marlowe, Spenser, Shakespeare, Milton, and others. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 46) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) (C-ID: ENGL 160)

ENGL 138—SURVEY OF ENGLISH LITERATURE: LATE EIGHTEENTH CENTURY TO PRESENT
54 Lecture Hours
Formerly listed as: ENGL 138: Survey of English Lit: 18th Century to Present, ENGL 138: Survey of English Literature: 1700 - Present
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 and satisfactorily complete ENGL 102.
This course examines major works of British Literature from the late eighteenth century to the post-colonial and contemporary time. The study includes multiple genres with texts of literary, historical, and cultural importance and impact. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 47) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) (C-ID: ENGL 165)

ENGL 151—FOLKLORE
54 Lecture Hours
Formerly listed as: ENGL 151: Introduction to Folklore
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Examine interrelationships of people throughout the world through discussion and analysis of our folk heritage. Folk-themes and symbolism in literature also will be discussed. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 156—THE BIBLE AS LITERATURE: THE HEBREW CANON AND INTERTESTAMENTAL WRITINGS
54 Lecture Hours
Formerly listed as ENGL 156 - The Bible As Literature-The Hebrew Canon
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to have eligibility for ENGL 101.
This course consists of literary criticism and an appreciation of historical background and textual transmission of selected books of the Hebrew Bible (Old Testament) and Intertestamental Writings (also known as the Apocrypha) in translation. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 157—THE BIBLE AS LITERATURE: THE NEW TESTAMENT
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Analysis of the literature of the earliest Christian movements as it is found in the New Testament. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 161—FILM APPRECIATION
54 Lecture Hours
An introductory course in film appreciation, emphasizing the development of sensitivity and critical judgment in audience response to film. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)(UC)(CC ENGL 11) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

ENGL 162—HISTORY OF CINEMA
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Examines the international development of cinema from 1895 to the present. Covers a wide range of both American and foreign films and offers a broad survey of major movements, styles, and genres in the history of motion pictures. Focuses specifically on the social, historical, technical, and technological factors that have shaped the film industry and the films produced by it. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 163—INTRODUCTION TO SHAKESPEARE
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete English 101 and 102.
A reading of six to nine representative comedies, histories, and tragedies designed to introduce the student to Shakespeare’s art. Field trips might be required. (A-F or P/NP) (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ENGL 50) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

ENGL 168—adolescent LITERATURE
54 Lecture Hours
Prerequisite: Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
<table>
<thead>
<tr>
<th>COURSES</th>
<th>E: ENGL / ENGR</th>
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<tbody>
<tr>
<td>ENGL 169—CHILDREN’S LITERATURE</td>
<td>3 UNITS</td>
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<tr>
<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<tr>
<td>Introduction to literature for children. Introduces representative works from a variety of ethnic and cultural sources, including storytelling. Develops students’ close reading and analytical writing skills. Develops appreciation for aesthetic qualities of children’s literature. Field trips might be required. (A-F or P/ NP) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<tr>
<td>ENGL 171—INTRODUCTION TO AFRICAN-AMERICAN LITERATURE</td>
<td>3 UNITS</td>
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<tr>
<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<tr>
<td>An introduction to the contributions of African-Americans in American literature from the slave era to the present. Emphasis on a chronological study of major works in the following genres: slave narratives, folk tales, poetry, short story, novel, and drama. Field trips might be required. (A-F or P/ NP) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B) (C-ID: ENGL 180)</td>
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<tr>
<td>ENGL 172—INTRO TO CHICANO/A LITERATURE</td>
<td>3 UNITS</td>
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<tr>
<td><strong>Formerly listed as ENGL 172—Intro to Chicano Literature</strong></td>
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<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<tr>
<td>This course is a survey of Chicano literature in English from its beginnings to its contemporary form. Emphasis on influences that have shaped the literature and critical skills needed to evaluate and appreciate Chicano poetry, theater, fiction, and essay. Field trips might be required. (A-F or P/ NP) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<tr>
<td>ENGL 173—INTRO TO LATIN AMERICAN LITERATURE</td>
<td>3 UNITS</td>
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<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<tr>
<td>Introduction to Latin American literature from its Colonial Period to the present. Emphasis on chronological survey of major works of Latin American writers studied in English translation and selected from the following: indigenous legends, chronicles, epistles, poetry, novel, drama, and short story. Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<tr>
<td>ENGL 174—INTRODUCTION TO MODERN ASIAN LITERATURE</td>
<td>3 UNITS</td>
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<tr>
<td><strong>54 Lecture Hours</strong></td>
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<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<tr>
<td>An introductory course on Asian literature from the 19th century to the present in its English translation. There is an emphasis on major works that have made an impact on western literary tradition and the social, cultural, and historical forces that have shaped these works. Field trips might be required. Not repeatable. (A-F Only) <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<tr>
<td>ENGL 175—INTRODUCTION TO WOMEN’S LITERATURE</td>
<td>3 UNITS</td>
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<td><strong>54 Lecture Hours</strong></td>
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<tr>
<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<td>An introduction to literature by and about women, including an historical overview, archetypes, stereotypes, cultural impediments to women’s writing, methods of criticism, and recent literary achievements. Field trips might be required. (A-F or P/ NP) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<tr>
<td>ENGL 179—INTRODUCTION TO NATIVE AMERICAN LITERATURE, MYTHOLOGY, AND THE ORAL TRADITION</td>
<td>3 UNITS</td>
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<tr>
<td><strong>54 Lecture Hours</strong></td>
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<tr>
<td><strong>Formerly listed as: ENGL 179: Intro to Native American Lit</strong></td>
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<tr>
<td><strong>Prerequisite:</strong> Satisfactory completion of ENGL 50 or qualification by the MJC assessment process.</td>
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<td><strong>Recommended for Success:</strong> Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.</td>
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<tr>
<td>Study of traditional and contemporary Native American literature, oral traditions, and myths from a variety of nations, including some local Native American peoples. Relationship of contemporary writing to earlier cultural heritage. Place of Native American literature in the American literary tradition and canon. Close reading of contemporary autobiography, novels, short fiction and non-fiction, and poetry. Field trips might be required. (A-F Only) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>General Education:</strong> (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)</td>
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<td>ENGR (ENGINEERING)</td>
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<td>ENGR 127—ENGINEERING GRAPHICS</td>
<td>4 UNITS</td>
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<tr>
<td><strong>36 Lecture Hours, 108 Lab Hours</strong></td>
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<tr>
<td><strong>Prerequisite:</strong> Satisfactory completion of MATH 90 or eligibility for MATH 101 or higher as determined by MJC Assessment process.</td>
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| Development of graphics skills for engineering drawings with the use of computer aided drafting (CAD) software. Topics include orthographic and pictorial projections, section and
auxiliary views, dimensioning, tolerancing, threaded fasteners, and working drawings. Introduction to 3D modeling and engineering design. Design project required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC)

**ENSCE (ENVIRONMENTAL SCIENCES)**

**ENSCE 108—ENVIRONMENTAL CONSERVATION** **3 UNITS**

54 Lecture Hours

Study of the world’s environment to sustain the highest quality of life. Includes study of ecology, populations, environmental pollution, conservation of natural resources including: energy, water, soils, forests, rangelands, and wildlife. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) **General Education:** (MJC-GE: A) (CSU-GE: B2) (IGETC: 5B)

**ENSCE 110—CALIFORNIA WATER** **3 UNITS**

36 Lecture Hours, 54 Lab Hours

An interdisciplinary examination of California’s water use and management with an historical emphasis on the politics and conflict arising from water scarcity. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **General Education:** (MJC-GE: B) (CSU-GE: D7) (IGETC: 4G)

**FAMLFL (FAMILY LIFE)**

**FAMLFL 131—FAMILY RELATIONSHIPS** **3 UNITS**

54 Lecture Hours

This is an introductory course to marriage and family, including psychological, physiological, and social aspects of close personal relationships. The topics include dating, courtship, marriage, family life, dual career marriages, single parenting, and other contemporary issues. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **General Education:** (MJC-GE: B, E) (CSU-GE: D7, E) (IGETC: 4G)

**FDNTR (FOOD AND NUTRITION)**

**FDNTR 219—INTRODUCTION TO NUTRITION SCIENCE** **3 UNITS**

54 Lecture Hours

Formerly listed as: FDNTR - 219: Nutrition

Recommended for Success: Before enrolling in this course, students are strongly advised to have successfully completed a laboratory chemistry course in high school or college or be concurrently enrolled in a laboratory chemistry course in college.

Scientific concepts of nutrition related to the function of nutrients in basic life processes; relationship of nutrition to optimum health, dietary changes, and disease. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC BIOL 50) **General Education:** (MJC-GE: A, E) (CSU-GE: E)

**FDNTR 220—PRINCIPLES OF FOODS WITH LAB** **3 UNITS**

36 Lecture Hours, 54 Lab Hours

Prerequisite: Satisfactory completion of FDNTR 219.

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Application of food science principles with emphasis on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food. Field trips might be required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU) (C-ID: NUTR 120)

**FREN (FRENCH)**

**FREN 51—INTRODUCTORY FRENCH 1** **3 UNITS**

54 Lecture Hours

Formerly listed as: FREN 51: Introduction to Practical French 1

Slow-paced, non-transferable course designed for people who have never studied French and/or another foreign language. Introduction to elementary French grammar and pronunciation. Field trips might be required. (A-F or P/NP) Not repeatable. **General Education:** (MJC-GE: C)

**FREN 52—INTRODUCTORY FRENCH 2** **3 UNITS**

54 Lecture Hours

Formerly listed as: FREN 52: Introduction to Practical French 2

Prerequisite: Satisfactory completion of FREN 51.

Continuation of FREN 51 Slow-paced, non-transferable course designed for people who wish to continue from French 51. Basic French grammar and pronunciation. Field trips might be required. (A-F or P/NP) Not repeatable. **General Education:** (MJC-GE: C)

**FREN 101—FRENCH 1** **5 UNITS**

90 Lecture Hours

Essentials of written and spoken French, simple composition, conversation, and reading. Equivalent to the satisfactory completion of two years of high school French. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **General Education:** (MJC-GE: C) (CSU-GE: C2) (IGETC: 6A)

**FREN 102—FRENCH 2** **5 UNITS**

90 Lecture Hours

Prerequisite: Satisfactory completion of FREN 101.

Continuation of FREN 101. Expansion of verb tenses, vocabulary and commonly used expressions. Emphasis on past, future, and conditional present verb tenses. Equivalent to the satisfactory completion of three years of high school French. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **General Education:** (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)
The Fire Science curriculum prepares the student for a career in fire service. Students will learn about the organization and operations of fire service, proper use of fire equipment, tactics and strategies of firefighting, specialized job skills, and management techniques. Fire Science courses dropped or inactivated Fall 1987 to Fall 1988 are valid for students completing those courses prior to deletion from the catalog. For more information, contact the Regional Fire Training Center at 548-5706.

FSCI 262—FIRE ACADEMY PHYSICAL TRAINING 1 UNIT
54 Lab Hours
Corequisite: Concurrent enrollment in FSCI 362 or FSCI 363.
This course is designed to provide physical fitness preparation and assessment of students registered in the MJC Regional Fire Training Fire Academy. Field trips are not required. (P/NP Only) Transfer: (CSU) Local Requirement: (Activities)

FSCI 301—FIRE PROTECTION ORGANIZATION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 50 eligibility.
Introduction to the fire service and fire protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public and private fire protection services; specific fire protection functions. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CC FIRE 1)

FSCI 302—FIRE PREVENTION TECHNOLOGY 3 UNITS
54 Lecture Hours
A basic overview of the role of fire prevention in modern fire service. Identifies the relationship of fire prevention, fire safety education, fire detection, and suppression systems. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CC FIRE 2)

FSCI 303—FIRE PROTECTION EQUIPMENT & SYSTEMS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.
Portable fire extinguishing equipment; sprinkler systems; protection systems for special hazards; fire alarm and detection systems. Field trips are required. (A-F Only) Not repeatable. Transfer: (CC FIRE 3)

FSCI 304—BUILDING CONSTRUCTION FOR FIRE PROTECTION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.
Fundamentals of building construction as it relates to fire protection. Introduction to building materials and processes that are involved in the construction of structures. Provides students with the knowledge required to operate safely and effectively within residential or commercial buildings. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CC FIRE 4)

FSCI 305—FIRE BEHAVIOR AND COMBUSTION 3 UNITS
54 Lecture Hours
Theory and fundamentals of how and why fires start, spread, and are controlled; an indepth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. (A-F Only) Not repeatable. Transfer: (CC FIRE 5)

FSCI 306—PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Introduction to the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior changes throughout the emergency services. Field trips might be required. (A-F Only) Not repeatable.

FSCI 309 FIRE MANAGEMENT 2E 2.5 UNITS
45 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Fire Management 1A.
Ethical leadership is an essential core value for all leaders in the fire service. This course provides chief officers or chief officer candidates with knowledge to correlate personal core values and characteristics to ethical decisions and behaviors. Course examines exploration of ethical and principle-centered leadership. Course instructor will require students to provide a State Fire Training Fire Management 1A certificate. Materials Fee Required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 311—RESCUE SYSTEMS 1 2 UNITS
36 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have received California State Fire Training’s Firefighter One Certification or have satisfactorily completed FSCI 363.
Topics include: Team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable.

FSCI 312—FIRE INVESTIGATION 2A 2 UNITS
36 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who provide verification of completion of Fire Investigation 1B.
Provides information on conducting an explosive investigation and surveillance operation, preparing a search warrant, testifying as an expert witness, assembling a curriculum vitae, and properly documenting a criminally caused fire. Materials Fee Required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 322—FIRE SERVICE CAREER DEVELOPMENT/PROMOTIONS 3 UNITS
45 Lecture Hours, 27 Lab Hours
Prerequisite: Satisfactory completion of FSCI 301.
Introduction to Fire Service Career Development. This course of instruction is designed
to assist fire science students to prepare for entry level and interdepartmental Fire Service examinations. To be considered as an eligible candidate, students must have a working knowledge of fire service testing standards and terminology. Students will collect information for the application processes, resume writing, entry level written tests, mechanical aptitude and oral interviews. Students are also instructed on aspects of pre-employment medical and psychological tests and background checks. Field trips might be required. (A-F Only) Not repeatable.

FSCI 323—FIRE HYDRAULICS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.
Review of applied mathematics; hydraulics laws as applied to the fire service; application of formulas and mental calculations to hydraulics and water supply problems. Field trips might be required. (A-F Only) Not repeatable.

FSCI 327—FIRE APPARATUS AND EQUIPMENT 3 UNITS
54 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificate for Firefighter 1.
Fire apparatus design, specifications, and performance capabilities; effective utilization of apparatus in fire service emergencies. Field trips might be required. (A-F Only) Not repeatable.

FSCI 328—INVESTIGATION OF FIRES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.
Determining cause of fires (accidental, suspicious and incendiary); types of fires; related laws; introduction to arson and incendiarism; recognizing and preserving evidence; interviewing witnesses and suspects; arrest and detention procedures; court procedures and giving court testimony. Field trips might be required. (A-F Only) Not repeatable.

FSCI 332—FIRE SCIENCE TACTICS & STRATEGY 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of FSCI 301.
Principles of fire control through the utilization of manpower, equipment and extinguishing agents on the fireground. Field trips might be required. (A-F Only) Not repeatable.

FSCI 336—RESCUE PRACTICES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.
Rescue problems and techniques; emergency rescue equipment; toxic gases; chemicals and diseases; radiation hazards; care of victims, including respiration and resuscitation, extraction, and other emergency conditions. Field trips might be required. (A-F Only) Not repeatable.

FSCI 337—WILDLAND FIRE CONTROL 3 UNITS
54 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificate for Firefighter 1.
Introduction to factors affecting wildland fire prevention, fire behavior, and control techniques. Field trips might be required. Not repeatable. Transfer: (CC FIRE 7) (A-F Only)

FSCI 347—FIRE PREVENTION 1C 2.5 UNITS
45 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificate for Fire Prevention 1A and Fire Prevention 1B.
Provides fire service personnel with the third phase of State Certified Fire Prevention instruction. Includes instruction on flammable and combustible liquid hazards, storage and extinguishment. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 350—FIRE COMMAND 1A 2 UNITS
34 Lecture Hours, 6 Lab Hours
Prerequisite: Satisfactory completion of FSCI 301.
Fundamental skills for the First-in Incident Commander and company officers. Instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management. Materials Fee Required. (A-F Only) Not repeatable.

FSCI 351—FIRE COMMAND 1B 2 UNITS
34 Lecture Hours, 6 Lab Hours
Prerequisite: Satisfactory completion of FSCI 301 and FSCI 350.
Prepares fire officers for command of various emergency incidents. Emphasizes development of management and decision making practices required for success. Topics include use of the Incident Command System to manage major disasters, wildland fires, multi-casualty and hazardous materials incidents. Materials Fee Required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 352—TRAINING INSTRUCTOR 1A 2.5 UNITS
45 Lecture Hours
Formerly listed as: FSCI 352: Fire Instructor 1A
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301 and/or Possess a California Firefighter I certificate.
The first of a three course series to prepare in-service firefighters to become a company officer and or a California State Fire Training Level 1 Instructor. Training instructor courses must be taken in order 1A, 1B then 1C. Topics include methods and techniques for cognitive training in accordance with current concepts in vocational education. Emphasis on selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons. Personnel enrolled will be responsible to learn principles of learning, levels of instruction, methods of selecting, adapting, organizing and evaluating instructional efficiency. All students will complete all assignments and deliver two student lead cognitive teaching demonstrations, and must pass a state certified written test. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.
COURSES

FSCI 353—TRAINING INSTRUCTOR 1B  
2.5 UNITS  
45 Lecture Hours  
Formerly listed as: FSCI 353: Fire Instructor 1B  
Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Training Instructor 1A.  
This is the second class of a three course series to prepare in-service firefighters to become a company officer and or a California State Fire Training Level 1 Instructor. Training instructor courses must be taken in order 1A, 1B then 1C. Topics include methods and techniques for psychomotor training in accordance with current concepts in vocational education. Emphasis on selecting, adapting, organizing, evaluating instruction appropriate for teaching psychomotor lessons. Personnel enrolled will be responsible to learn methods of employing the four-step-method of instruction for psychomotor training. All students will complete all assignments and deliver two student lead psychomotor teaching demonstrations, and pass a state certified written test. Enrolled students must present course instructor with a Training Instructor 1A state certification the first day of class. Materials Fee Required. (A-F Only) Not repeatable.

FSCI 354—FIRE PREVENTION 1A  
2.5 UNITS  
45 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have completed their firefighter probation or have supervisor’s approval for enrollment if still on probation.  
Designed to provide prospective or active Fire Company Officer and Fire Prevention personnel with basic fire prevention information. Structured to prepare the student for responding to a variety of fire prevention situations in a professional and effective manner. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 355—FIRE PREVENTION 1B  
2.5 UNITS  
45 Lecture Hours  
Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Fire Prevention 1A.  
Designed to provide fire service personnel with the second phase of state certified fire prevention instruction. Includes instruction on private water systems, fixed fire extinguishing, detection and alarm systems. Materials fee required. Field trips are required. (A-F Only) Not repeatable.

FSCI 356—FIRE MANAGEMENT 1  
2.5 UNITS  
45 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.  
Designed to provide the fire service student with instruction in the elements of organizational process, demonstration of growth and development in the use of managerial skills, applications of the course content to fire service work and personal life, location and use of managerial resources, and development of an action plan. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 357—FIRE INVESTIGATION 1  
2.5 UNITS  
45 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 301.  
Examines the national arson problem, fire investigation responsibilities, conduct of the investigator; fire chemistry, heat energy sources and explosive conditions; fire investigation techniques and legal aspects of fire investigation. Materials fee required. Field trips are required. (A-F Only) Not repeatable.

FSCI 362—BASIC FIRE ACADEMY  
8 UNITS  
108 Lecture Hours, 108 Lab Hours  
Prerequisite: Satisfactory completion of FSCI 301 and EMS 350.  
Limitations on Enrollment: Enrollment limited to students who are accepted into the Fire Academy program by Fire Academy Selection Committee and who possess CPAT certification, per NFPA 1582 regulation.  
Basic knowledge and skills of a fire fighter as set by the State Fire Marshal. Successful completion of the course fulfills the educational requirement for Fire Fighter I. Materials fee required. Field trips are required. (A-F Only) Not repeatable. Transfer: (MJC FSCI 362+363=CC FIRE 7, FIRE 50, FIRE 101, FIRE 106, FIRE 108, FIRE 110)

FSCI 363—ADVANCED FIRE ACADEMY  
9 UNITS  
81 Lecture Hours, 243 Lab Hours  
Prerequisite: Satisfactory completion of FSCI 362.  
Basic Fire Academy is the second of two courses of the Fire Academy designed for the individual who desires a career as a professional firefighter. This course includes instruction in ventilation, vehicle extrication, ICS 200, 67-hr. Wildland Fighting, Confined Space Awareness, Low-Angle Rope Rescue Operations, Hazmat Operations/Decon, Fire Fighter Survival. Materials fee required. Field trips are required. (A-F Only) Not repeatable. Transfer: (MJC FSCI 362+363=CC FIRE 7, FIRE 50, FIRE 101, FIRE 106, FIRE 108, FIRE 110)

FSCI 364—FIRE APPARATUS DRIVER/OPERATOR 1A  
2 UNITS  
27 Lecture Hours, 27 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 362.  
Limitations on Enrollment: Enrollment limited to students who possess a valid California Driver’s License, class B, firefighter restricted (minimum).  
Continued development of a fire fighter’s career. Operation of emergency vehicle and pump operations. How to drive and maintain various types of vehicles. Pump operation and uses for water sources and determining water flow. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CC FIRE 29A + 29B)

FSCI 366—FIRE APPARATUS DRIVER/OPERATOR 1B  
2 UNITS  
34 Lecture Hours, 6 Lab Hours  
Limitations on Enrollment: Enrollment limited to students who possess a valid California Driver’s License, class B, firefighter restricted (minimum).  
Pump construction and theory of pump operations. Topics include: methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions. Materials Fee Required. Field trips might be required. (A-F Only) Not repeatable.

FSCI 367—FIRE INVESTIGATION 1B  
2.5 UNITS  
45 Lecture Hours  
Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Fire Investigation 1A.
This course provides a deeper understanding of fire investigation and builds on Fire Investigation 1A. Topics include: The juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

**FSCI 369—TRAINING INSTRUCTOR 1C**  
2.5 UNITS  
45 Lecture Hours, 27 Lab Hours  

Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Training Instructor 1A and a State Fire Training Certificate for Training Instructor 1B.

This is the third of a three-course series to prepare in-service firefighters to become a California State Fire Training Level 1 instructor. Topics include methods and techniques for developing and delivering cognitive and psychomotor lesson plans. Emphasis on developing lesson plans, ancillary components, and testing tools for cognitive and psychomotor lessons. Personnel enrolled will be responsible to learn methods for developing and delivering cognitive and psychomotor lessons. All students will develop and deliver two student lead teaching demonstrations and pass a state certification test. Enrolled students must present course instructor with a Training Instructor 1A and 1B certificate on the first day of class. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.

**FSCI 371—FIRE COMMAND 2A**  
2.5 UNITS  
45 Lecture Hours  

Limitations on Enrollment: Enrollment limited to students who can provide a State Fire Training Certificate for Fire Command 1A and 1-300.

Prepares Fire Officers to use management techniques and Incident Command System when commanding multiple alarms or large combat forces. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

**FSCI 372—FIRE MANAGEMENT 2B**  
2.5 UNITS  
45 Lecture Hours  

Formerly listed as: FSCI 372B: Fire Management 2B  

Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificate for Fire Management 1.

Covers the purpose of budgeting, budget controls, types of budgets and budget systems and justifying budgets. Materials fee required. Field trips might be required. (A-F Only) Not repeatable.

**FSCI 373—FIRE INSTRUCTOR 2A**  
2.5 UNITS  
45 Lecture Hours  

Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificate for Training Instructor 1A, Training Instructor 1B, and Training Instructor 1C.

The first of three State Fire Training courses for Fire Instructor II certification. Advanced skill development for instructors who are responsible for evaluating performance. Course work provides the student with the techniques of evaluation. Course content includes construction of written and performance tests. Students will apply concepts of test planning, test analysis, test security, and test evaluation to determine instructor and student effectiveness. This is an essential course for writing valid and objective Fire Service tests. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.

**FSCI 374—FIRE INSTRUCTOR 2B**  
2.5 UNITS  
45 Lecture Hours  

Limitations on Enrollment: Enrollment limited to students who can provide State Fire Training Certificates for Fire Instructor 1A and 1B, or Training Instructor 1A, 1B, and 1C.

Second of three courses for California State Fire Training, Fire Instructor II certification. Students receive advanced leadership and development skills for planning staff level training and group meetings. Course work includes information on group dynamics, problem-solving techniques, interpersonal relations, staff meetings, brainstorming sessions, panel discussions, conferences and forums. Materials fee required. Field trips are not required. (A-F Only) Not repeatable.

**FSCI 375—FIRE INSTRUCTOR 2C**  
2 UNITS  
30 Lecture Hours, 10 Lab Hours  

Prerequisite: Satisfactory completion of FSCI 352 and FSCI 353.

Principles of media in the instructional process; selection of audio-visual and instructional media; employment of basic and advanced forms of instructional media; use of computers in the instructional process; individualized instruction programs. Materials Fee Required. Field trips might be required. (A-F Only) Not repeatable.

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**FTECH (FIRE TECHNOLOGY)**

**FTECH 321XABC—FIRE SERVICE IN-SERVICE TRAINING / EMS**  
0.50-3 UNITS  

X= 9 Lecture Hours A= 18 Lecture Hours B= 36 Lecture Hours C= 54 Lecture Hours  

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EMS 389 and satisfactorily complete EMS 390 and satisfactorily complete FSCI 301 or similar course trainings.

Limitations on Enrollment: Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross. Students must also provide certification of completion of a 40-hour First Responder course which meets State of California Fire Marshal training level. Training on Federal, State, and Local job requirements & mandates within the EMS field. Field trips might be required. Not repeatable. (P/NP Only)

**FTECH 322XABC—FIRE SERVICE IN-SERVICE TRAINING/ SPECIAL OPERATIONS**  
0.5-3 UNITS  

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 304 and satisfactorily complete FSCI 362 and satisfactorily complete FSCI 301 or similar course trainings.

Limitations on Enrollment: Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross. Students must also provide certification of completion of a 40-hour First Responder course, ICS 200, Haz-Mat FRQ, and LARRO, which meets State of California Fire Marshal training level.
COURSES

FTECH 323XABC—FIRE SERVICE IN-SERVICE TRAINING/ COMMAND & CONTROL 0.5-2 UNITS

X= 9 Lecture Hours, A= 18 Lecture Hours, B= 36 Lecture Hours, C= 54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 305 and satisfactorily complete FSCI 350 and satisfactorily complete FSCI 301 or similar course trainings.

Limitations on Enrollment: Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross. Students must also provide certification of completion of a 40-hour First Responder course, and ICS 200, which meets State of California Fire Marshal training level.

Training on Federal, State, and Local job requirements & mandates within the Emergency Services Command & Control field. Field trips might be required. Not repeatable. (P/NP Only)

FTECH 324XABC—FIRE SERVICE IN-SERVICE TRAINING/ ADMINISTRATION 0.5-3 UNITS

X= 9 Lecture Hours, A= 18 Lecture Hours, B= 36 Lecture Hours, C= 54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 356 and satisfactorily complete FSCI 301 or similar course trainings.

Limitations on Enrollment: Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross. Students must also provide certification of completion of a 40-hour First Responder course, and ICS 200, and Workplace Harassment training, which meets State of California Fire Marshal training level.

Training on Federal, State, and Local job requirements & mandates within the Emergency Services Administration field. Field trips might be required. Not repeatable. (P/NP Only)

FTECH 325XABC—FIRE SERVICE IN-SERVICE TRAINING/ OPERATIONS 0.5-3 UNITS

X= 9 Lecture Hours, A= 18 Lecture Hours, B= 36 Lecture Hours, C= 54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete FSCI 304 and satisfactorily complete FSCI 305 and satisfactorily complete FSCI 301 or similar course trainings.

Limitations on Enrollment: Enrollment limited to students who can demonstrate completion of basic First Aid and CPR (Healthcare Provider level) from the American Heart Association or National Safety Council, or Professional Rescuer level from the American Red Cross. Students must also provide certification of completion of a 40-hour First Responder course, ICS 200, Haz-Mat FRO, and LARRO, which meets State of California Fire Marshal training level.

Training on Federal, State, and Local job requirements & mandates within the Emergency Services Operations field. Field trips might be required. Not repeatable. (P/NP Only)
GEOL 100—WORLD REGIONAL GEOGRAPHY
303 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to complete English 101.

Survey of the world's major geographical regions and their physical, economic, political, and cultural characteristics. Emphasis is placed upon historical influences which explain current problems and conditions. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: GEOG 125) (CC GEOGR 20) General Education: (MJC-GE: B) (CSU-GE: D5) (IGETC: 4E)

GEOL 110—PHYSICAL GEOLOGY, LAB
1 UNIT

Corequisite: Concurrent enrollment in or satisfactory completion of GEOG 111.

This laboratory course is offered to provide supplemental exercises in topics covered in Physical Geography lecture course. Lab experiences will include map analysis and interpretation, weather forecasting, landform identification, tectonics, biogeography, and habitat analysis. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: GEOG 111) General Education: (MJC-GE: A)

GEOL (GEOLOGY)

GEOL 160—INTRODUCTION TO GEOLOGY
303 Lecture Hours

Study of the composition of the Earth, and the physical and chemical processes which shape it. Topics include plate tectonics, volcanism, earthquakes, rocks and minerals, weathering, and erosion. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: GEOL 100) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 161—PHYSICAL GEOLOGY
403 Lecture Hours, 54 Lab Hours

Study of the physical and chemical processes that shape the earth, including plate tectonics, volcanism, weathering, and erosion; the composition of the Earth; and geologic hazards such as mass wasting, flooding and earthquakes. Laboratory topics include rock and mineral identification, and the use of maps and aerial photographs to understand erosional and tectonic processes. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ESC 5) (C-ID: GEOL 101) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

GEOL 165—GEOLOGY OF CALIFORNIA
303 Lecture Hours

The geologic setting and evolution of California's geomorphic provinces. Emphasis on processes that have and are still acting to shape the landscape: volcanism, earthquakes, and erosion. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: GEOL 200) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

GEOL 166—HISTORICAL GEOLOGY
403 Lecture Hours, 54 Lab Hours

Introduction to the origin, development, and evolution of the earth and its inhabitants. Topics include the study of fossils and rocks, continents and ocean basins, geologic time, plate tectonics, climate change and mass extinctions. Laboratory utilizes rocks, fossils and stratigraphic principles to decipher ancient environments. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: GEOL 111) (CC ESC 23) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

GEOL 171—GEOLOGY FIELD STUDIES
0.5-2 UNITS

X=9 Discussion Hours, A=18 Discussion Hours, B=36 Discussion Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete or concurrently enroll in a geology or earth science course. Introduction to basic geological concepts through field trips to areas of geologic significance. Emphasis will be on the materials and structures that compose a landscape, and the history and evolution of the areas visited. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC ESC 35)

GEOL 172—GEOLOGY OF YOSEMITE VALLEY
0.5 UNITS

9 Disc Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor. Application of the principles of geology to interpret rock sequences, landscapes, and tectonic structures in Yosemite Valley and the Merced River Valley. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

GEOL 173—GEOLOGY OF PINNACLES NATIONAL PARK
0.5 UNITS

9 Disc Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor. Application of the principles of geology to interpret rock sequences and tectonic structures in Pinnacles National Park and along the San Andreas fault in California's Coast Ranges. Field trips are required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

GEOL 174—GEOLOGY SUMMER FIELD STUDIES
303 Discussion Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete a college-level course in geology or Earth science. Application of principles of geology through extended field studies at selected sites in the western United States and other geologically significant locations. Skills developed in rock, mineral, and fossil identification, and use of geological field equipment. Requires ability to work and study under rigorous conditions. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)
<table>
<thead>
<tr>
<th>COURSES</th>
<th>G: GEOL</th>
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<tbody>
<tr>
<td><strong>GEOL 175 — CAVERNS AND KARST TOPOGRAPHY OF THE SIERRA NEVADA</strong></td>
<td>0.5 UNITS</td>
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<tr>
<td><strong>9 Disc Hours</strong></td>
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<tr>
<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Study of caverns and karst topography of the Sierra Nevada and application of the principles of geology to interpret rock sequences and tectonic structures exposed within the region. Field trips are required. (A-F or P/NP) Not repeatable.</td>
<td>Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 176 — GEOLOGY OF CALIFORNIA’S MOTHER LODGE</strong></td>
<td>0.5 UNITS</td>
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<tr>
<td><strong>9 Disc Hours</strong></td>
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<tr>
<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>History of the California Gold Rush and application of the principles of geology to interpret rock sequences and tectonic structures revealed in the California Mother Lode. Field trips are required. Not repeatable.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 180 — GEOLOGY OF THE CENTRAL SIERRA NEVADA</strong></td>
<td>1 UNIT</td>
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<tr>
<td><strong>18 Disc Hours</strong></td>
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<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Application of the principles of geology to interpret rock sequences and tectonic structures in the central part of the Sierra Nevada, including Yosemite National Park and the Sonora Pass region. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 181 — GEOLOGY OF SEQUOIA AND KINGS CANYON</strong></td>
<td>1 UNIT</td>
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<tr>
<td><strong>18 Disc Hours</strong></td>
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<tr>
<td>Application of the principles of geology to interpret rock sequences and tectonic structures at Sequoia and Kings National Parks in the southern Sierra Nevada. Requires ability to work and study under rigorous conditions. Field trips required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 182 — GEOLOGY OF THE CALIFORNIA COASTLINE</strong></td>
<td>1 UNIT</td>
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<tr>
<td><strong>18 Disc Hours</strong></td>
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<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Application of the principles of geology to interpret rock sequences, tectonic structures, coastal processes, and coastal landforms along the central California coastline. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 185 — GEOLOGY OF CALIFORNIA’S VOLCANOES</strong></td>
<td>2 UNITS</td>
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<tr>
<td><strong>36 Disc Hours</strong></td>
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<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<td>Application of the principles of geology to interpret rock sequences and evaluate the potential for volcanic activity in the Cascades Range and Modoc Plateau region of Northern California. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Not repeatable. Transfer: (CSU)</td>
</tr>
<tr>
<td><strong>GEOL 186 — GEOLOGY OF THE EASTERN SIERRA NEVADA</strong></td>
<td>2 UNITS</td>
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<tr>
<td><strong>36 Lecture Hours</strong></td>
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<tr>
<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Application of the principles of geology to interpret rock sequences and tectonic structures in the eastern Sierra Nevada and Owens Valley of California. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 187 — GEOLOGY OF THE DEATH VALLEY REGION</strong></td>
<td>2 UNITS</td>
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<tr>
<td><strong>36 Disc Hours</strong></td>
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<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<td>Application of the principles of geology to interpret rock sequences and tectonic structures in Death Valley and the Mojave Desert of California. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 190 — INTERNATIONAL GEOLOGY FIELD STUDIES</strong></td>
<td>3 UNITS</td>
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<tr>
<td><strong>54 Disc Hours</strong></td>
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<tr>
<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Application of principles of geology through extended field studies at geologically significant sites overseas and in international settings. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Transfer: (CSU)</td>
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<tr>
<td><strong>GEOL 191 — GEOLOGY OF THE COLORADO PLATEAU</strong></td>
<td>3 UNITS</td>
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<tr>
<td><strong>54 Disc Hours</strong></td>
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<tr>
<td>Recommended for Success: Before enrolling in this course, students are strongly advised to be enrolled in or have successfully completed any geology or earth science course, or get consent of the instructor.</td>
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<tr>
<td>Application of the principles of geology to interpret rock sequences and tectonic structures of the Colorado Plateau, including Grand Canyon, Zion, Bryce Canyon, and other national parks and monuments in the Four Corners region. Requires ability to work and study under rigorous conditions. Field trips are required.</td>
<td>(A-F or P/NP) Not repeatable. Transfer: (CSU)</td>
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GEOL 192—GEOLoGY OF THE PACIFIC NORTHWEST  3 UNITS

54 Disc Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to successfully complete any geology or earth science course, or get consent of the instructor.

Application of the principles of geology to interpret rock sequences and tectonic structures in the Pacific Northwest Cordillera, including the Cascades Range volcanoes, the Columbia Plateau, and the northern Rocky Mountains of the United States and Canada. Requires ability to work and study under rigorous conditions. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

GERM (German)

GERM 101—GERMAN 1  5 UNITS

90 Lecture Hours

Essentials of written and spoken German, simple composition, conversation, and reading. Equivalent to satisfactory completion of two years of high school German. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 6A)

GERM 102—GERMAN 2  5 UNITS

90 Lecture Hours

Prerequisite: Satisfactory completion of GERM 101.

Continuation of German 1. Review and expansion of tenses, vocabulary and commonly used expressions. Equivalent to the satisfactory completion of three years of high school German. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)

GERON (Gerontology)

GERON 101—AGING IN AMERICA  3 UNITS

54 Lecture Hours

Analysis of the aging process from a multidisciplinary approach, including sociology, psychology, and physiology. Students will have an opportunity to explore their beliefs, feelings, and values regarding the aged population. Field trips might be required. (AF or P/NP) Not repeatable. Transfer: (CSU)

GUIDE (Guidance/Counseling)

The Guidance program is an integral part of the counseling services. Students who take guidance skills courses will learn to:

- Acquire, organize and demonstrate problem-solving and decision-making skills;
- Explore, evaluate and pursue career and educational options;
- Develop social, intellectual and emotional competencies; develop needed skills and strategies to maximize the educational experience;
- Understand themselves, others and their environment to enable them to develop individual value systems and life styles.

One of the following courses must be taken to fulfill the guidance graduation requirement:

GUIDE 109, 110, 111, 112, 116, or 120. Students should enroll in a Guidance class the first semester of attendance at MJC.

GUIDE 109—INTERNATIONAL STUDENT/NEW AMERICAN FOCUS  1 UNIT

18 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ESL 40 and satisfactorily complete ESL 44.

Education and career planning for students whose previous education has been outside the United States. Acquaints students with the college, its curriculum, facilities, services, academic regulations, programs, degree and Transfer requirements. Reviews extra curricular activities, personal adjustment, American customs, culture shock, and survival techniques. Students must complete a conference with a counselor during the semester. A comprehensive educational plan is developed. Field trips are not required. (P/NP Only) Not repeatable. Transfer: (CSU) Local Requirement: (Guidance)

GUIDE 110—INTRODUCTION TO COLLEGE  0.5 UNITS

9 Lecture Hours

Formerly listed as: GUIDE - 110: Educational Planning

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 49 or satisfactorily complete READ 40 or qualification by the MJC assessment process.

Acquaints MJC students with the college, its curriculum, facilities, services, academic regulations, vocational and certificate programs, degree and Transfer requirements. Students may complete a conference with a counselor individually, in a group, or online to develop an educational plan according to each student's needs and goals. Recommended for students who already have an educational goal and a tentative major selected. Field trips are not required. Not repeatable. Transfer: (CSU) (CC GUIDE 107) Local Requirement: (Guidance)

GUIDE 111—CAREER EXPLORATION  1 UNIT

18 Lecture Hours

Formerly listed as: GUIDE 111: Career Awareness

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 49 or satisfactorily complete READ 40 or qualification by the MJC assessment process.

Assists students in exploring career alternatives through development of skills necessary for the research, selection and planning of a life-long career. The role of attitudes, interests, values and skills will be addressed. Interests, temperament/personality and values tests may be used. Important aspects of occupational choice will be covered along with occupational information. An educational plan will be developed. Students must complete a conference with a counselor during the semester. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU) (CC GUIDE 11) Local Requirement: (Guidance)
COURSES

GUIDE 112 — JOB PREPARATION SKILLS 1 UNIT
18 Lecture Hours

Formerly listed as GUIDE 12 - Job Hunting Skills

Recommended for Success: Before enrolling in this course, students are strongly advised to have a comprehensive educational plan from a MJC counselor. Realities of the job market and techniques for conducting a successful job search. Emphasis on learning about job application procedures, resume writing and interviewing skills. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU) (CC: GUIDE/BUSAD 25) Local Requirement: (Guidance)

GUIDE 116 — ORIENTATION FOR RE-ENTRY ADULTS 2 UNITS
36 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to speak, write, and understand the English language.

Designed to help new or returning adult students be successful in college after having been out of school for a number of years. Acquaints students with college services, programs, and requirements, and numerous topics related to academic and career success. These topics include adult transitions, self-exploration, educational planning, study skills, time management, learning styles, goal setting, career exploration, and other topics related to student success. Students must complete a conference with a counselor during the semester. An educational plan will be developed based on student's academic and career goals. Field trips are not required. (P/NP Only) Not repeatable. Transfer: (CSU) Local Requirement: (Guidance)

GUIDE 120 — SUCCESS STRATEGIES FOR TRANSFER STUDENTS 3 UNITS
54 Lecture Hours

Increase success in college, career and life by obtaining skills, techniques and attitudes necessary to reach personal goals. Explore personality, interests, skills and values to increase self-awareness and select appropriate major and career. Topics include: educational planning and Transfer strategies, career trends, motivation and learning styles, principles of learning and memory, critical and creative thinking, research strategies, note-taking, subject-specific study techniques, wellness, time and stress management, diversity, textbook study methods. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Guidance)

HE (HEALTH EDUCATION)

The expanding field of health education through public or community agencies and the schools will require trained professionals for positions of leadership and supervision. The professionals will be dealing with such complex issues as physical and mental well-being, substance abuse, exercise, environmental and consumer health, disease control, human sexuality, family relations, death and dying, first aid and emergency care. Since careers in the Health Education field usually require a minimum of a four-year degree, health education majors at MJC are given an introduction to health through basic health and safety courses and are advised to follow General Education and Transfer requirements for four-year colleges and universities.

HE 101 — EMERGENCY MEDICAL RESPONSE; CPR PRO/HEALTHCARE PROVIDER 3 UNITS
54 Lecture Hours

Formerly listed as: HE 101: Emergency Response/CPR

Course designed to provide first responder capabilities necessary in an emergency to help sustain life, reduce pain, minimize the consequences of injury or sudden illness, and to provide emergency care of the sick and injured. CPR for the Professional/Health Care Provider, Automated External Defibrillator, and Emergency Medical Response certificates issued upon satisfactory completion. Materials fee required. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC: HHP 62) (C-ID: KIN 101)

HE 110 — HEALTHFUL LIVING 3 UNITS
54 Lecture Hours

A consideration of factors in the selection of a plan for healthful living. Emphasis on self-assessment through gathering and analyzing information while setting new health goals. Focus is placed on emotional, physical, social, spiritual, intellectual and environmental wellness in achieving human potential. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC: HHP 2) General Education: (MJC-GE: E) (CSU-GE: E)

HE 111 — WOMEN’S HEALTH ISSUES 3 UNITS
54 Lecture Hours

Explore women’s issues in relation to dimensions of wellness and lifestyle behaviors for fitness, nutrition, healthcare and reduction of chronic illnesses. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) (CC: HHP 60) General Education: (MJC-GE: E) (CSU-GE: E)

HE 112 — INTRODUCTION TO PUBLIC HEALTH 3 UNITS
54 Lecture Hours

An introduction to the discipline of Public Health including basic concepts, terminologies, history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an examination of core public health disciplines. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of disease, illness and health disparities; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (CID: PHS 101) General Education: (MJC-GE: B, E)

HE 114 — HEALTH AND SOCIAL JUSTICE 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

This course provides an introduction to health inequities in the United States that stem from unequal living conditions. Students will explore how education, socioeconomic status, racism and gender influence health epidemics and health policy. In addition, basic skills necessary for advocating for health and social justice will be addressed. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CID: PHS 102) General Education: (MJC-GE: B)

HE 115 — DRUGS, HEALTH, AND SOCIETY 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 45 or satisfactorily complete ENGL 50 or qualification by MJC assessment process.

This course provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. The concepts of substance abuse and
dependence, licit and illicit drugs, and the pharmacologic, neurologic, and physiologic effects of selected substances on the human brain will be introduced. Factors involved in the supply and demand for drugs will be discussed. Data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Recovery options and local resources will be reviewed. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) General Education: (MJC-GE: B, E)

**HE 118—EXERCISE AND NUTRITION FOR HEALTHY LIVING** 3 UNITS

54 Lecture Hours

Theories of exercise including techniques of endurance, methods of strength attainment, and flexibility training. Nutrition concepts and influences on exercise and weight management. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: E)

**HIST (HISTORY)**

**HIST 101—HISTORY OF THE UNITED STATES TO 1877** 3 UNITS

54 Lecture Hours

Formerly listed as: HIST 101: History of the United States Through Reconstruction

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Survey of United States history to 1877 exploring the intersection of politics, the economy, society, culture and geography. Periods covered include: American societies to 1492, the colonial period, the American Revolution, creation of the U.S. Constitution and federalism, the early national period, the antebellum period, the Civil War and Reconstruction. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: HIST 16) (C-ID: HIST 130) General Education: (MJC-GE: B) (CSU-GE: a - Group a, c - Group c, D6) (IGETC: 4F)

**HIST 102—HISTORY OF THE UNITED STATES SINCE 1865** 3 UNITS

54 Lecture Hours

Formerly listed as: HIST 102: History of the United States Post Civil War

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Survey of United States history from 1865 through contemporary period, exploring the intersection of politics, the economy, society, culture and geography. Periods covered include: Reconstruction, late-19th century industrialization, the American West, imperialism, the Progressive Era, World War I, the 1920s, the 1930s and the Great Depression, World War II, the Cold War, civil rights, and modern America. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: HIST 17) (C-ID: HIST 140) General Education: (MJC-GE: B) (CSU-GE: a - Group a, c - Group c, D6) (IGETC: 4F)

**HIST 104—WESTERN CIVILIZATION TO 1650** 3 UNITS

54 Lecture Hours

Formerly listed as HIST 104 - Western Civilizations

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Survey of the social, economic, political, religious, intellectual, and cultural development of Western Civilization from the Neolithic to the Reformation. (A-F or P/NP) Not repeatable. Field trips might be required. Transfer: (CSU, UC) (C-ID: HIST 170) General Education: (MJC-GE: B, C) (CSU-GE: C2, D6) (IGETC: 3B, 4F)

**HIST 105—WESTERN CIVILIZATION SINCE 1650** 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101 or qualification by MJC assessment process.

Survey of the political, economic, social, and cultural changes in the history of Western Civilization from 17th century Absolutism to the present. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: HIST 180) General Education: (MJC-GE: B, C) (CSU-GE: C2, D6) (IGETC: 3B, 4F)

**HIST 106—WORLD CIVILIZATION TO THE 16TH CENTURY** 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

A comparative and interactive investigation and analysis of World Civilization as related to the development of the modern world. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC: HIST 13) General Education: (MJC-GE: B, C) (CSU-GE: C2, D6) (IGETC: 3B, 4F) (C-ID: HIST 150)

**HIST 107—WORLD CIVILIZATION FROM THE 16TH CENTURY** 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

A comparative study of World Civilizations from 1500 to the present. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC: HIST 14) (C-ID: HIST 160) General Education: (MJC-GE: B, C) (CSU-GE: C2, D6) (IGETC: 3B, 4F)

**HIST 112—20TH CENTURY AMERICA** 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Explores the political, economic, social and cultural developments of twentieth century United States history. Topics include imperialism, progressivism, warfare, the depression, cold war, social justice and globalization. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4F)

**HIST 113—SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES PRIOR TO THE 20TH CENTURY** 3 UNITS

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

The first in a two-part series, this course examines the development of American society and culture prior to the 20th century. HIST 113 specifically analyzes the formation and evolution of American social institutions in response to indigenous American and immigrating European and African cultures. This course compares interpretations of
race, gender, class, political economy and human rights to examine social and cultural transformations in America. Emphasis is placed on the evolution of state and federal constitutional government and the principle of inclusion. Contemporary local, State, and Federal government developments are analyzed historically in relation to political and social movements as a foundation for contemporary social activism. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: a - Group a, D3, D6) (IGETC: 4C, 4F)

HIST 115—ECONOMIC HISTORY OF THE UNITED STATES 3 UNITS
54 Lecture Hours
Also offered as: ECON 115
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Analysis of origins and development of business, infrastructure, labor, and agriculture from colonial period to present. Emphasis on federal government's role in development and regulation of business, infrastructure, labor and agriculture; government's role in national economic policy. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: AI - GROUP A),(CSU-GE: D2, D6) (IGETC: 4B, 4F)

HIST 116—WOMEN IN AMERICAN HISTORY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Study of the history of women in the United States, their experiences and contributions from the pre-colonial period to the present. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC HIST 21) General Education: (MJC-GE: B) (CSU-GE: D4, D6) (IGETC: 4D, 4F)

HIST 119—SOCIAL AND CULTURAL HISTORY OF 20TH CENTURY AMERICA 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
The second in a two-part series, this course examines the development of American society and culture in the 20th and 21st century. The course specifically analyzes American political and economic institutions and their interaction with Indigenous American, Latino/Chicano, African American, European, and Asian American ethnicities. Particular attention is given to various historic and contemporary civil and human rights movements. This course provides critical evaluation of the developing role of local, State, and Federal government in the inclusion of ethnic and gender participation. The gradual movement toward full protection of all peoples of America under State and Federal Constitutional law is emphasized. The effects of U.S. domestic and foreign policies on first and third world nations will be evaluated. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: a - Group a, D3, D6) (IGETC: 4C, 4F)

HIST 125—HISTORY OF MEXICO 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
This course surveys the political, social, economic, and cultural history of Mexico from Pre-Columbian times to the present. Discussion of major periods of Mexican history will focus on their contribution in shaping modern Mexico. No prior knowledge of Mexico or Spanish language is needed to succeed in this course. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D3, D6) (IGETC: 4C, 4F)

HIST 128—THE AMERICAN WEST 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Formerly Listed as: HIST 128: History of American Far Western Frontier
A regional history of the American West from the 1400s through the 20th century. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D3, D6) (IGETC: 4C, 4F)

HIST 129—HISTORY OF CALIFORNIA 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Survey of California history from the first peoples to inhabit this region through the present. Themes include California's relationship to the rest of the nation, agriculture, politics, gender, race and ethnicity, social movements, water and other resources, etc. This course can be used to satisfy requirements for the Teacher Education degree. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: HIST 11) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4F)

HIST 145—HISTORY OF LATIN AMERICA 3 UNITS
54 Lecture Hours
Formerly listed as HIST 145 - Latin American History
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Survey of Latin American history through the present, emphasizing changes and continuities in the political, economic, social, and cultural life of the continent. Examines issues such as: the colonial legacy, development and underdevelopment, ideas of race and ethnicity, relationship to the outside world, the construction of the nation-state, gender, and social, economic, and political movement. No prior knowledge of Latin America or Spanish language is needed to succeed in this course. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D6) (IGETC: 4F)

HIST 154—AFRICAN AMERICANS THROUGH THE 19TH CENTURY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
HIST 155 — AFRICAN AMERICANS IN THE 20TH AND 21ST CENTURIES  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process. 
Second in a two-part series. Examines the political, economic, technological, and social history of African Americans from the end of the 19th century through the early 21st century. Specific analysis of complex relationships between European Americans, Latino/Chicano Americans, and African American ethnic groups. Inquiry into race, gender, and class disparities. Ongoing struggles for ethnic self-determination and inclusion are contrasted against institutional resistance and social marginalization. Emphasis on the evolution of State and Federal Constitutional government and the struggle for ethnic parity, disparity, and inclusion. Contemporary and historic local, State, and Federal government developments are analyzed in relation to political and social movements as a foundation for contemporary activism for civil rights, human rights, and economic justice. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: A - Group a, D3, D6) (IGETC: 4C, 4F)

HIST 192 — INDEPENDENT STUDIES IN HISTORY  
2 UNITS  
36 Lecture Hours  
Limitations on Enrollment: Enrollment limited to students who receive instructor approval of completed Independent Study proposal. 
Directed study of independent projects in history, with personalized instruction beyond the standard course work. Instructor approval is required. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU, UC) Note: UC credit awarded after transfer review.

HUMAN 101 — INTRODUCTION TO THE HUMANITIES  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to be eligible for ENGL 101. 
Introduction to major works of the humanities that focuses on the diversity of human experience and the relationships among arts and ideas. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 106 — HUMANITIES IN THE MODERN WORLD  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 101 eligibility. 
Study of creative and intellectual achievements from cultures around the world, beginning with 1600’s and extending into the 21st century. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC HUMAN 2) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 110 — EAST MEETS WEST  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 101 Eligibility. 
Differences between Eastern and Western world cultures are explored. Works studied are chosen from the fields of art, music, philosophy, literature and/or architecture. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC HUMAN 3) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 130 — INTRODUCTION TO WESTERN RELIGIONS  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to be eligible for ENGL 101. 
Origins and development of the three monotheistic religions of Western Civilization, Judaism, Christianity and Islam; scripture, beliefs, traditions, rituals, and celebrations; scripture of all three faiths, along with architecture and arts. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 140 — INTRODUCTION TO WORLD MYTHOLOGY  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 101 eligibility. 
An overview of mythology which examines the nature, functions and meanings of myths throughout the world, their cultural contexts, artistic expressions, and influence in contemporary life. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

HUMAN 196 — HUMANITIES SPECIAL TOPICS: SOCIAL JUSTICE  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advise to have ENGL 101 eligibility and have completed HUMAN 101 or HUMAN 105 or HUMAN 106 or HUMAN 110 or HUMAN 130 or HUMAN 140. 
This course provides an interdisciplinary examination of specialized topics in the humanities. Specifics topics change each semester, providing exposure to different issues central to cultural conceptions of social justice. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU)
HUMAN 197—HUMANITIES SPECIAL TOPICS: NATURE AND CIVILIZATION 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 101 eligibility and have satisfactorily completed HUMAN 101 or HUMAN 105 or HUMAN 106 or HUMAN 110 or HUMAN 130 or HUMAN 140.

This course provides an interdisciplinary examination of specialized topics in the humanities. Specifics topics change each semester, providing exposure to different issues central to cultural conceptions of nature and civilization. Field trips might be required. (A-F or P/NP) Transfer: (CSU) Note: UC credit awarded after transfer review.

HUMAN 198—HUMANITIES SPECIAL TOPICS: PLACE AND IDENTITY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have ENGL 101 eligibility and have satisfactorily completed HUMAN 101 or HUMAN 105 or HUMAN 106 or HUMAN 110 or HUMAN 130 or HUMAN 140.

This course provides an interdisciplinary examination of specialized topics in the humanities. Specifics topics change each semester, providing exposure to different issues central to cultural conceptions of place and identity. Field trips might be required. (A-F or P/NP) Transfer: (CSU) Note: UC credit awarded after transfer review.

HUMSR (HUMAN SERVICES)

The Modesto Junior College Human Services programs provide knowledge and skills involved with the delivery of a wide variety of social services through various community social work and counseling agencies.

The two-year programs are designed to prepare students for entry-level employment in human service organizations as well as to upgrade current employees. They also provide a basis for future academic training leading to degrees in Social Work, Sociology, and Psychology.

HUMSR 40—INDEPENDENT LIVING SKILLS & ACTIVITIES 1.5 UNITS
27 Lecture Hours
Formerly listed as Independent Living Skills
Non-degree course.

Provides foster youth ages 16-18 with the knowledge, information, survival skills and activities for daily living and foundation to transition from foster care to living independently in the community. Field trips might be required. (P/NP Only) Not repeatable.

HUMSR 101—INTRODUCTION TO HUMAN SERVICES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduction to the field of human services, and the role of paraprofessional workers in private and public settings on a local, state, and national level. The class provides an overview of the historical development of human services, professional values, processes, clinical skills, techniques, theoretical foundations, and current social issues. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: B)

HUMSR 103—INTRODUCTION TO HUMAN SERVICES CAREERS 0.5 UNITS
9 Lecture Hours
Introduction to careers in the human services profession, personal qualities, clinical skills, and academic requirements necessary for entry-level human service positions. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 104—AGING IN AMERICA 3 UNITS
54 Lecture Hours
Also offered as: GERON 101
Analysis of the aging process from a multidisciplinary approach, including gerontology, sociology, human services, psychology, and physiology. Students will have an opportunity to explore their beliefs, feelings, and values regarding the aged population. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 110—INTRO TO INTERVIEWING, COUNSELING 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactory completion of ENGL 101.

Introduction to the principles and practices of interviewing, counseling, and theoretical frameworks. Designed to assist in the preparation of paraprofessionals in the Human Services and other interrelated fields. Recognition and understanding of social problems, and the impact on human behavior. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 111—COUNSELING IN CHEMICAL DEPENDENCY 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactory completion of ENGL 101.

Concepts of counseling, therapy, personality development, and theoretical frameworks relevant to chemical dependency. Designed to assist the paraprofessional in the chemical dependency profession and other related fields. Clinical skills, assessment tools, techniques, crisis intervention strategies, and resolution will be covered. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 113—CO-OCCURRING DISORDERS 3 UNITS
54 Lecture Hours
Introduction to the treatment needs of individuals who are diagnosed with a psychiatric disorder in combination with a chemical dependency disorder. Students will learn to identify, assess, and offer treatment to those with a dual diagnosis/co-occurring disorder. Field trips might be required. (A-F-only) Not repeatable. Transfer: (CSU)

HUMSR 114—DEATH AND DYING 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactory complete ENGL 101.

Exploration of feelings, belief systems, values and theoretical comprehension about
death, dying, and the bereavement process from a historical, multidisciplinary, and cultural perspective. Topics include: coping mechanisms, counseling the dying, suicide, grief and bereavement, terminal illness, and multi-cultural concepts about death. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC SOCIO 28) General Education: (MUC-GE: B)

HUMSR 116—DRUGS AND ALCOHOL IN SOCIETY 3 UNITS
54 Lecture Hours
An introductory course that focuses on drug and alcohol use, abuse, and dependency in society. Covers causes for addiction, current trends, historical dimensions, prevention, treatment, multicultural considerations, and corresponding myths regarding chemical dependency and psychoactive drugs. (A-F or P/NP) Field trips are not required. Not repeatable. Transfer: (CSU) (CC PSYCH 35)

HUMSR 117—INTERVENTION AND TREATMENT STRATEGIES IN CHEMICAL DEPENDENCY 3 UNITS
54 Lecture Hours
Recommended for Success: Satisfactory completion of ENGL 101
Prerequisite: Before enrolling in this course, students are strongly advised to satisfactorily complete HUMSR 111 and 116.
Continued development in the application of therapeutic techniques, clinical skills, and strategies relative to the treatment of chemical dependency. Emphasizes the intervention process, assessment tools, crisis counseling, theoretical foundations, recovery dynamics, and family systems. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 118—DRUGS AND HUMAN BEHAVIOR 3 UNITS
54 Lecture Hours
Formerly listed as: HUMSR 118: Pharmacology of Abused Substances
Also offered as: PSYCH 118
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete HUMSR 116 or satisfactorily complete PSYCH 101.
Overview of the physiological and psychological effects of recreational and medicinal psychoactive substances including stimulants, sedative-hypnotics, antidepressants, antipsychotics, alcohol, opiates, hallucinogens, and marijuana. The course will examine the neurobiological, behavioral and social factors that influence drug use, abuse, and dependence. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) General Education: (MUC-GE: E) (CSU-GE: E)

HUMSR 119—INTRODUCTION TO GROUP LEADERSHIP AND GROUP PROCESS 3 UNITS
54 Lecture Hours
An introduction to the dynamics of group interaction with an emphasis upon the individuals’ subjective experience as the group studies itself (under supervision). The factors involved in problems of communication, effective emotional responses, and personal growth will be highlighted. Emphasis on group process as a means of changing individual behavior. Field trips might be required. (A-F only) Not repeatable. Transfer: (CSU)

HUMSR 120—PROFESSIONAL DEVELOPMENT IN THE HELPING PROFESSION 3 UNITS
54 Lecture Hours
Formerly listed as: Professional Development in Chemical Dependency
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Focuses on the application of clinical skills, theoretical foundations, strategies, techniques, ethical standards, and professional development in the Human Services and Chemical Dependency profession. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 142—INTRODUCTION TO PSYCHOSOCIAL REHABILITATION 3 UNITS
54 Lecture Hours
Introduction to the field of psychosocial rehabilitation and its application in the public mental health system. The class provides an overview of the core practice models, principles, theories, and methods in psychosocial rehabilitation as related to the social sciences, and gives students a broad view of best clinical practices, social and psychological considerations in working with individuals who have psychiatric disorders using sociological concepts, theories, and methodology. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MUC-GE: B)

HUMSR 143—PSYCHOSOCIAL REHABILITATION PRACTICE 3 UNITS
54 Lecture Hours
Continued development in the field of psychosocial rehabilitation, and its application in the public mental health system. Designed to provide opportunities for students to practice and apply models of psychosocial rehabilitation, principles, theories, and methods related to the social sciences with individuals who have psychiatric disorders using sociological concepts and methodology. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) General Education: (MUC-GE: B)

HUMSR 144—HUMAN SERVICES PRACTICUM 1 UNIT
18 Discussion Hours
Formerly listed as: HUMSR 144: Community Agency Practicum Discussion
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete HUMSR 110 or satisfactorily complete HUMSR 111 and be currently enrolled in the CASRA or CADE program at the college.
Analysis of fieldwork experiences in HUMSR 145A, 145B, or 145C. Sharing, evaluation, and discussion of supervised fieldwork experiences and placements. Continued development and enhancement of clinical skills, theoretical integration, knowledge base, professional values, and competence in the helping profession. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

HUMSR 145ABD—COMMUNITY AGENCY PRACTICUM 1, 2, 4 UNITS
A = 18 Disc Hours, B = 36 Disc Hours, D = 72 Disc Hours
Corequisite: Concurrent enrollment in HUMSR 144.
Supervised fieldwork experiences of students concurrently enrolled in HUMSR 144. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)
COURSES

HUMSR 146 — PSYCHOSOCIAL REHABILITATION WITH CHILDREN/FAMILIES  
3 UNITS  
54 Lecture Hours  
Introduction to the field of psychosocial rehabilitation with children and families, and its application to the public mental health system. The class provides an overview of the core practice models, principles, theories, and methods in psychosocial rehabilitation as related to psychology, human services, sociology, other interrelated fields, and gives students a broad view of the best clinical practices when working with children and families that have psychiatric disorders. Field trips might be required. Transfer: (CSU)

IIS (INDIVIDUALIZED INSTRUCTION AND SERVICES)  

IIS 13 — IMPROVING LEARNING POTENTIAL  
2 UNITS  
36 Lecture Hours  
Non-degree course.  
Specialized instruction for students with disabilities to maximize their learning potential and increase academic efficiency. Field trips are not required. Not repeatable. (A-F or P/NP)

IIS 15 — ADAPTED KEYBOARDING  
2 UNITS  
18 Lecture Hours, 54 Lab Hours  
Non-degree course.  
Designed to teach keyboarding basics to students with disabilities who must use assistive technologies for successful access to the keyboard or monitor and/or are unable to compete successfully in mainstream keyboarding courses. Lecture/ Laboratory. Not repeatable.

IIS 16 — COMPUTER ACCESS 1  
2 UNITS  
27 Lecture Hours, 27 Lab Hours  
Non-degree course.  
Designed for students with visual, physical, acquired brain injury, language impairment, learning disabilities or deafness. Provides training in the use of computer access technologies which enhance a disabled student's ability to access and use microcomputers. Not repeatable.

IIS 18 — COMPUTER ACCESS PROJECTS  
2 UNITS  
18 Lecture Hours, 54 Lab Hours  
Non-degree course.  
Designed for students with disabilities who require access to specialized assistive technologies in order to complete assignments for other classes in which they are concurrently enrolled. (A-F or P/NP) Not repeatable.

IIS 20 — MATH STRATEGIES FOR DISABLED STUDENTS  
1 UNIT  
18 Lecture Hours  
Non-degree course.  
Limitations on Enrollment: Enrollment limited to students formally admitted into the Disability Services program.  
Intended for new and re-entry students with disabilities who need additional instruction and compensatory strategies to learn and be successful within the traditional classroom. Specialized instruction will occur in disability awareness and in formulating strategies for success in the college environment. Field trips are not required. Not repeatable. (A-F or P/NP). Lecture

IIS 21 — MAKING THE MOVE: TRANSITION TO COLLEGE  
1 UNIT  
18 Lecture Hours  
Non-degree course.  
Intended for new and re-entry students with disabilities who need additional instruction and compensatory strategies to learn and be successful within the traditional classroom. Specialized instruction will occur in disability awareness and in formulating strategies for success in the college environment. Not repeatable.

INDIS (INTERDISCIPLINARY STUDIES)  

The Interdisciplinary Studies Program emphasizes critical thinking, communication skills, and independent work. Students are accepted into the program not solely on the basis of past achievement but, most importantly, on their willingness to become members of an intellectually stimulating, interactive learning community.

INDIS 100 — INTRODUCTION TO HONORS SCHOLARSHIP  
3 UNITS  
54 Lecture Hours  
Enrollment limited to those who have been admitted to the Honors program. Interpersonal communication theory and its practical application. Forms of philosophical inquiry that are applicable to the humanities, social sciences, arts, and physical sciences as well as their ethical and political applications. Library and information sources, including development of research strategies, and the retrieval, evaluation, and use of information. (A-F only) Not repeatable. Transfer: (CSU)

ITAL (ITALIAN)  

ITAL 101 — ITALIAN 1  
5 UNITS  
90 Lecture Hours  
Fundamentals of spoken and written Italian. Introduction to Italian cultures. Equivalent to the satisfactory completion of two years of high school Italian. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C1) (CSU-GE: C2) (IGETC: 6A)
LIBR (LIBRARY AND INFORMATION TECHNOLOGY)

The division of Library & Learning Center offers a course that supports the information competencies applicable to college-level research and lifelong learning. This course is designed to benefit Transfer students who want to develop research skills using the information resources and services found in college libraries, as well as lifelong learners seeking to acquire skills necessary to thrive in an information society. The Library & Information Technology course is transferable to four-year colleges and universities.

LIBR 100—RESEARCH CONCEPTS AND PRACTICE 3 UNITS
54 Lecture Hours
Formerly listed as: LIBR 100: Research Methodology, LR 100: Research Methodology
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Introduction to academic information sources, including traditional print resources, eBooks, online periodical and research databases, and the Web. Emphasis on the development of effective research strategies, and the retrieval, evaluation, and use of information for academic research assignments. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: D2)

LOGST (LOGISTICS)

The Logistics and Supply Chain Management program is designed to prepare students for entry level jobs in warehouse operations, inventory control, distribution center operations, transportation operations, production operations, procurement or customer service. Successful students will receive a vocational education that will provide the foundation for jobs such as warehouse clerk, distribution clerk, inventory clerk, logistics clerk, purchasing clerk, production scheduler or customer representative.

LOGST 200—INTRODUCTION TO LOGISTICS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to be familiar with financial spreadsheet software and Internet searches.
Fundamental concepts of logistics with an emphasis on outbound goods movement. Techniques of organizing, analyzing and controlling logistics systems. Topics include: supply chain, packaging, customer service, transportation, warehouse and distribution center site selection and procurement functions. Field trips might be required. (A-F Only) Transfer: (CSU)

LOGST 201—OPERATIONS MANAGEMENT AND LEAN PRINCIPLES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 20 or qualification by MJC assessment process.
Describes the fundamental concepts, techniques, and application of the field of Operations Management with focus on goods and services, value chains, strategy and technology. Emphasis is also on operations design, operations execution, productivity and Lean principles. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

LOGST 202—INTRODUCTION TO SUPPLY CHAIN MANAGEMENT 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 20 or qualification by MJC assessment process.
Provides an overview of essential Supply Chain Management concepts and processes. Topics include demand management, production/operations, order management, customer service, inventory management, transportation, distribution, and procurement. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

LOGST 203—INTRODUCTION TO TRANSPORTATION MANAGEMENT 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 20 or qualification by MJC assessment process.
This course examines Transportation and its role in the supply chain and the economy. It also focuses on the basic modes of transportation as well as emerging issues and trends in transportation management. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

LOGST 205—INTRODUCTION TO WAREHOUSE MANAGEMENT 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 20 or qualification by MJC assessment process.
Provides an overview of essential warehouse management concepts, processes and technologies. Topics include the role of the warehouse and the warehouse manager, warehouse processes and technology, as well as current issues and trends in warehouse management. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

LOGST 206—INTRODUCTION TO PURCHASING AND CONTRACTING 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete MATH 20 or qualification by MJC assessment process.
This course introduces the students to fundamental concepts and processes of procurement. It also examines key contemporary procurement issues and applications. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

LOGST 207—INTRODUCTION TO CUSTOMER SERVICE 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
Introduces students to the customer service skills that are essential in all types of organizations today. Demonstrates how effective customer service techniques can help customer service professionals and their organizations achieve critical goals, deal with problems and complaints, consistently exceed customer expectations, and create loyal customers. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)
COURSES

LOGST 299BD — LOGISTICS INTERNSHIP  2 OR 4 UNITS
B = 108 Lab Hours, D = 216 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to complete all required program core courses and consult with the logistics faculty.
An internship program with selected logistics and supply chain organizations. Focus will be on one or multiple functions of supply chain. Student interns will be under joint supervision of the employers and faculty members. Intended to provide practical applications for students who have developed theoretical knowledge and effective interpersonal skills by completing their program’s core course(s). One unit equals 60 hours of uncompensated work experience or 75 hours of compensated work experience. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU)

LOGST 300 — GLOBAL LOGISTICS ASSOCIATE TRAINING  3 UNITS
54 Lecture Hours
The Global Logistics Associate (GLA) is an internationally recognized certification program that acknowledges the completion of rigorous coursework in logistics and supply chain for entry level positions. This certification program focuses on the general knowledge of transportation/logistics and the associated functions necessary for the delivery of goods. Field trips might be required. Not repeatable. (A-F or P/NP) Not repeatable.

LOGST 301 — LIFT TRUCK OPERATIONS AND SAFETY TRAINING  2 UNITS
108 Lab Hours
This course provides behind-the-wheel lift truck operations and safety training. Field trips are not required. Not repeatable. (P/NP Only)

MACH (MACHINE TOOL TECHNOLOGY)

The Machine Tool Technology program provides training toward the acquisition of proficiency in the use of metal removal and metal forming machine tools. Training includes calculations of cutting speeds and feeds, use of measuring tools, study of elementary metallurgy, and making adjustments are also emphasized. Special focus is given to care of equipment, orderliness, accuracy, speed, judgment, confidence and safe working habits.

MACH 211DE — MACHINE TOOL TECHNOLOGY 1  4 - 5 UNITS
D = 54 Lecture Hours, 54 Lab Hours, E = 54 Lecture Hours, 108 Lab Hours
Formerly listed as: MACH 211D: Machine Tool Technology 1
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 20 and satisfactorily complete ESL 45.
This class is intended to address the situation of the traditional student with little or no experience in the manufacturing areas of the economy and has completed MACH 211. The principles and fundamental use of precision grinders and advanced applications of the manual engine lathe and milling machine are a primary focus. Advanced levels of measuring systems, the study of basic metallurgy, and the techniques of heat treating to enhance the properties of metallic parts are addressed. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 212DE — MACHINE TOOL TECHNOLOGY 2  4 - 5 UNITS
Formerly listed as: MACH 212D: Machine Tool Technology 2
D = 54 Lecture Hours, 54 Lab Hours, E = 54 Lecture Hours, 108 Lab Hours

Prerequisite: Satisfactory completion of MACH 211DE
This class is intended to address the situation of the traditional daytime student with little or no experience in the manufacturing areas of the economy and has completed MACH 211. The principles and fundamental use of precision grinders and advanced applications of the manual engine lathe and milling machine are a primary focus. Advanced levels of measuring systems, the study of basic metallurgy, and the techniques of heat treating to enhance the properties of metallic parts are addressed. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 213 — MACHINE TOOL TECHNOLOGY 3  4 UNITS
36 Lecture Hours, 108 Lab Hours
Formerly listed as: MACH 213D: Machine Tool Technology 3 - Manufacturing
Prerequisite: Satisfactory completion of MACH 212DE or MACH 302.
Theory and practice in the use of the dividing head, metric system, classes of fit, tool and cutter grinding, gear cutting, and dovetails. Carbide cutting tools emphasized. Exploration and study of manufacturing processes found in local industries. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 218 — INTRODUCTION TO CNC LATHE PROGRAMMING  2 UNITS
18 Lecture Hours, 54 Lab Hours
Formerly listed as: MFGA 218: Introduction to CNC Lathe Programming
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous machining experience using manual or CNC lathes.
The use of manual programming techniques to develop tool path codes required to produce products using two axis CNC turning equipment. Effective cutting speeds, feeds, and depth of cut for various machining operations. The use of “canned cycles” with word address programming as well as conversational programming format will be addressed. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 219 — INTRODUCTION TO CNC MILL PROGRAMMING  2 UNITS
18 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete courses or training that have provided them with experience in the use of manual or CNC milling machines.
The use of manual programming techniques to develop tool path codes required to produce products using CNC milling equipment. Effective cutting speeds, feeds, and depth of cut for various machining operations using “canned cycles” with word address programming as well as conversational programming format will be addressed. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 220 — CNC MACHINE TOOL PROGRAMMING  2 UNITS
18 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to be familiar with basic metal cutting practices, machine tool setup, and calculation of cutting tool speeds and feeds as encountered in the operation of manual lathes and milling machines; and have a working knowledge in the operation of personal computers; and have a basic understanding of formatting, structure, and codes used in the Word Address Format system of CNC programming.
The use of CAM (Computer Aided Manufacturing) programming techniques and software to develop tool path codes required to machine products using CNC milling and turning equipment. Materials Fee Required. (A-F or P/NP) Not repeatable. Transfer: (CSU)
COURSES

MACH 222—CNC MACHINE OPERATIONS 2 UNITS
27 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MACH 211DE or satisfactorily complete MACH 301 or have a working knowledge of the use of manually operated metal cutting lathes and milling machines and be able to use a micrometer to measure to within .001 inch.
The setup and operation of computer controlled machine tools with emphasis upon vertical machining centers and two axis turning centers. Primary controller operation, machine setup, tooling application, installation and adjustment and basic codes needed for editing will be addressed. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

MACH 223—ADVANCED CNC MACHINE OPERATIONS 3 UNITS
27 Lecture Hours, 81 Lab Hours
Prerequisite: Satisfactory completion of MACH 222.
Advanced setups, controller issues, and inspection techniques that may be encountered in the use of CNC controlled machine tools. May be completed up to 2 times. Field trips might be required. (A-F or P/NP). Materials fee required. Not repeatable. Transfer: (CSU)

MACH 301—MACHINE SHOP 1 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: MFGA 301: Machine Shop 1
Recommended for Success: Before enrolling in this course, students are strongly advised to be able to speak, read, and understand English.
This class is intended to address the needs of the working student who has had some experience in the manufacturing areas of the economy. The study and application of basic measuring tools, (steel rulers, vernier calipers & micrometers), layout tools and hand tools are addressed. The theory and practice of the use of drilling machines, bandsaws, lathes and vertical milling machines are a primary focus. Materials fee required. Field trips are not required. (A-F or P/NP) Not repeatable.

MACH 302—MACHINE SHOP 2 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: MFGA 302: Machine Shop 2
Prerequisite: Satisfactory completion of MACH 211DE or MACH 301.
This class is intended to address the needs of the working student who has had some experience in the manufacturing areas of the economy and has completed MACH 301. The principles and fundamental use of precision grinders and advanced applications of the manual engine lathe and milling machine are a primary focus. Advanced levels of measuring systems, the study of basic metallurgy, and the techniques of heat treating to enhance the properties of metallic parts are addressed. Materials fee required. Field trips are not required. (A-F or P/NP) Not repeatable.

MACH 303—MACHINE SHOP 3 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: MFGA 303: Machine Shop 3
Prerequisite: Satisfactory completion of MACH 212DE or MACH 302.
The theory and practice in the use of the dividing head, gearing systems, tool and cutter grinding, and non-traditional machining systems is addressed. Carbide tooling emphasized. Materials fee required. Field trips are not required. (A-F or P/NP) Not repeatable.

MACH 311—CNC PROGRAMMING WITH MACROS 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MACH 219 and have previous CNC programming experience or on-the-job training.
The application and practice of using macro techniques in the development of programs for the operation of CNC machine tools. Materials Fee Required. Field trips might be required. (P/NP Only) Not repeatable.

MACH 312—4 AXIS MILL PROGRAMMING AND OPERATION 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have had previous programming experience on CNC machining centers using word address format language.
The application and practice of programming, installing, and operating 4th axis rotary devices on CNC vertical machining centers. Materials Fee Required. Field trips might be required. (P/NP Only) Not repeatable.

MACH 313—MANUFACTURING PROCESSES 2 UNITS
36 Lecture Hours
The exploration and study of manufacturing techniques and common industrial processes found in local industries. Field trips might be required. Not repeatable.

MACH 315—3D PART PROGRAMMING FOR CNC 1 UNIT
9 Lecture Hours, 27 Lab Hours
Prerequisite: Satisfactory completion of MACH 220.
Application and practice of developing a program using CAD/CAM software that will direct a CNC machining center to cut a three dimensional contoured part. Materials fee required. Field trips might be required. (P/NP Only) Not repeatable.

MACH 357—MACHINE TRADES PRINT READING 2 UNITS
36 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have a basic working knowledge of personal computers and have the ability to add, subtract, multiply, and divide numbers and have a working knowledge of the English language as applied to manufacturing processes.
Interpretation of two-dimensional mechanical prints encountered in the machining of parts. Applicable for machinist, maintenance personnel, and machine operators needing familiarization with the terminology, symbols, and practices used in the manufacturing environment. Field trips are not required. (A-F or P/NP) Not repeatable.

MACH 395AB—ADVANCED MACH TOOL TECHNOLOGY LAB 1-2 UNITS
A=54 Lab Hours, B= 108 Lab Hours
Prerequisite: Satisfactory completion of MACH 211 or MACH 301 or MACH 218 or MACH 219 or MACH 220 or MACH 222.
Provides access to a Machine Tool Technology laboratory setting for advanced students for the purpose of continued skills development applicable to production machining processes. (P/NP Only) Not repeatable.
2017-2018 MATH SEQUENCE

Course transfers to CSU and UC
Satisfies MJC mathematics competency for associate degree, non-transferable
Non-transferable course
Prerequisite course sequence
STEM Sequence courses

GENERAL EDUCATION
- 101
- 111
- 105
- 130
- 134
- 138

LIBERAL STUDIES
- 106

FINITE MATHEMATICS
- 89

STATISTICS
- 90 only

BUSINESS CALCULUS
- 162
- 161
- 122
- 121

STEM
- 174
- 173
- 172
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PLACEMENT RANGE

Course transfers to CSU and UC
Satisfies MJC mathematics competency for associate degree, non-transferable
Non-transferable course
Prerequisite course sequence
STEM Sequence courses
MATH (MATHEMATICS)

MATH NON-TRANSFERABLE COURSES

MATH 9—ACCELERATED INTRO TO MATH 2 UNITS
36 Lecture Hours
This is an accelerated arithmetic class that serves as an alternative to the MATH 10-Intro to Math course. The course will focus on the four arithmetic operations as they apply to whole numbers, fractions, and decimals. Field trips are not required. Not repeatable. (A-F or P/NP)

MATH 10—INTRODUCTION TO MATH 4 UNITS
72 Lecture Hours
A review of the four arithmetic operations as they apply to whole numbers, common fractions, and decimal fractions. Includes the concepts of percents. A variety of selected applications from arithmetic, pre-algebra, and geometry. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: MATH 601)

MATH 19—ACCELERATED PRE-ALGEBRA 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of MATH 9 or MATH 10 or qualification by the MJC assessment process.
This is an accelerated Pre-Algebra class that serves as an alternative to the MATH 20-Pre-Algebra course. The course will focus on preparing students for algebra and applied math courses by introducing the algebraic concepts of simplifying expressions, polynomial arithmetic, and solving and graphing linear equations. The MATH 9 and MATH 19 course sequence will prepare students to enter into MATH 30-Elementary Algebra for STEM Majors or MATH 29-Elementary Algebra for Non-STEM Majors. Field trips are not required. Not repeatable. (A-F or P/NP) (CC MATH 602)

MATH 20—PRE-ALGEBRA 5 UNITS
90 Lecture Hours
Prerequisite: Satisfactory completion of MATH 9 or MATH 10 or qualification by the MJC assessment process.
Designed to help students prepare for algebra and applied math courses by reviewing fundamental operations of arithmetic and common geometric formulas, and introducing the algebraic concepts of simplifying expressions, polynomial arithmetic, and solving and graphing linear equations. Arithmetic reviewed includes whole numbers, integers, decimals, ratios, and percents. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: MATH 602)

MATH 29—ELEMENTARY ALGEBRA FOR NON-STEM MAJORS 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of MATH 19 or MATH 20 or qualification by the MJC assessment process.
Topics include: simplifying algebraic expressions, solving linear equations, factoring, graphing lines and parabolas, solving systems of equations, with application problems incorporated into each topic. This course is intended for Non-STEM majors. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: MATH 101)

MATH 30—ELEMENTARY ALGEBRA FOR STEM MAJORS 5 UNITS
90 Lecture Hours
Formerly Listed as MATH 70-Elementary Algebra
Prerequisite: Satisfactory completion of MATH 19 or MATH 20 or qualification by the MJC assessment process.
Equivalent to a first-year high school algebra course. Topics include: simplifying algebraic expressions, solving linear and quadratic equations, factoring, graphing lines and parabolas, solving systems of equations, rational expressions, and radicals, with application problems incorporated into each topic. Field trips are not required. Not repeatable. (A-F or P/NP) (CC MATH 101)

MATH 47—SKILLS FOR SUCCESS IN NON-TRANSFER LEVEL COURSES 0.5 UNITS
27 Lab Hours
Formerly listed as MATH 47 - Skills for Success in Elementary Algebra
Designed to provide practice in basic mathematical skills needed for success in non-Transfer level math courses. Particularly useful for those who are weak in prerequisite skills or who have struggled in other non-Transfer level mathematics courses. NOTE: MATH 47 DOES NOT serve as a prerequisite to any mathematics course. Field trips are not required. (P/NP Only) Not repeatable.

MATH 49—SKILLS FOR SUCCESS IN TRANSFER LEVEL MATH COURSES 0.5 UNITS
27 Lab Hours
Formerly listed as: MATH 49: Skills for Success in Intermediate Algebra
Practice on mathematical skills needed for success in Transfer level mathematics courses. Intended for those who need prerequisite skills or who have struggled in intermediate algebra or precalculus courses. DOES NOT serve as a prerequisite to Transferable mathematics courses. (P/NP Only) Not repeatable.

MATH 70—Course has been deactivated. See Catalog page 316 - Math Sequence diagram for appropriate course or consult a Counselor.

MATH 89—INTERMEDIATE ALGEBRA FOR NON-STEM MAJORS 4 UNITS
72 Lecture Hours
Formerly listed as: MATH 89: Intermediate Algebra Essentials
Prerequisite: Satisfactory completion of MATH 29 or MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
Equivalent to second year high school algebra. Topics include linear, quadratic, exponential and logarithmic functions and equations; complex numbers; solving systems of equations; conic sections;sequences and series. This course is intended for Non-STEM majors. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: Math Competency Req, Satisfied) General Education: (MJC-GE: D2)

MATH 90—INTERMEDIATE ALGEBRA FOR STEM MAJORS 5 UNITS
90 Lecture Hours
Formerly listed as: MATH 90: Intermediate Algebra
Prerequisite: Satisfactory completion of MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
Equivalent to second year high school algebra. Topics include linear, quadratic, exponential and logarithmic functions and equations; complex numbers; solving systems of equations using substitution, matrices and determinants; conic sections; transformations;
sequences, series and combinatorics. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: MATH 104) General Education: (MJC-GE: D2)

### MATH 101 — MATHEMATICAL IDEAS AND APPLICATIONS
3 UNITS
54 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 89 or qualification by the MJC assessment process or MATH 90 or qualification by the MJC assessment process.

A General Education course emphasizing the role of mathematics in civilization, the nature of mathematical thought, and applications of mathematics. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC MATH 6) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

### MATH 105 — STRUCTURE OF MATHEMATICS 1
3 UNITS
54 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 90 or MATH 89 or qualification by the MJC assessment process.

Structure of arithmetic for prospective elementary school teachers. The definitions, operations, and properties of sets, counting numbers, integers, rational and irrational numbers; numeration systems; number theory, logic. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC MATH 4) General Education: (MJC-GE: D2) (CSU-GE: B4)

### MATH 106 — STRUCTURE OF MATHEMATICS 2
3 UNITS
54 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 105.

Elementary probability, statistics and geometry for prospective elementary school teachers. Includes Euclidean geometry, measurement, and analytic geometry. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: B4)

### MATH 111 — APPLIED COLLEGE ALGEBRA
3 UNITS
54 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 89 or qualification by the MJC assessment process or MATH 90 or qualification by the MJC assessment process.

A College Algebra course that presents each topic to answer the question, “What is this used for?” Instruction begins with a real-world problem and develops the mathematical models and methods to solve it. Topics include: polynomial, rational, exponential, and logarithmic functions; theory of equations; systems of equations; matrix algebra; and analytic geometry. Designed specifically for students needing only a one-semester, non-precalculus College Algebra course for Transfer to a university. Not open to students who have received credit in Math 121. Will not serve as a prerequisite to Math 122 or Math 171. **STUDENTS PREPARING TO TAKE CALCULUS MUST TAKE MATH 121 AND MATH 122. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer:** (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

### MATH 121 — PRE-CALCULUS 1
5 UNITS
90 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 90 or qualification by the MJC assessment process.

A one-semester College Algebra course or, together with Math 122, a two-semester Precalculus course sequence. Emphasis on algebra skills essential for success in calculus. Topics include: review of linear, quadratic, rational, radical, exponential, logarithmic equations and graphs; systems of equations and inequalities (linear and nonlinear); functions and graphs; synthetic division; complex roots of polynomials; the Fundamental Theorem of Algebra; applications of exponential and logarithmic equations; sequences and series; mathematical induction; combinatorics. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

### MATH 122 — PRE-CALCULUS 2
5 UNITS
90 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 121.

Together with MATH 121, a two-semester Precalculus course sequence. A comprehensive course in analytic geometry and trigonometry. Topics include: vectors, rotation of axes, conic sections, polar and parametric functions, and trigonometric functions & graphs with applications. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

### MATH 130 — FINITE MATHEMATICS
3 UNITS
54 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 90 or qualification by the MJC assessment process or MATH 90 or qualification by the MJC assessment process.

Set theory, probability and counting techniques, Markov chains, matrices and linear systems, linear programming (Simplex Method), applications to business and behavioral and social sciences. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) (CC MATH 12) (C-ID: MATH 130) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

### MATH 134 — ELEMENTARY STATISTICS
4 UNITS
72 Lecture Hours
**Prerequisite:** Satisfactory completion of MATH 90 or MATH 89 or qualification by the MJC assessment process.

**Recommended for Success:** Before enrolling in this course, students are strongly advised to also enroll in Math 135—Problem Solving Skills and Technology for MATH 134.

Elements of descriptive and inferential statistics, including probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, and nonparametric statistics. Field trips are not required. (A-F or P/NP) **Transfer:** (CSU, UC) (CC MATH 2) (C-ID: MATH 110) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)
### MATH COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>MATH 135 — PROBLEM SOLVING SKILLS AND TECHNOLOGY</td>
<td>1</td>
<td>18 Lecture Hours</td>
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<td>Prerequisite: Satisfactory completion of MATH 89 or MATH 90 or qualification by the MJC assessment process.</td>
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<td>Corequisite: Concurrent enrollment in MATH 134.</td>
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<td>Designed to supplement MATH 134 with additional assistance in developing problemsolving skills necessary for success. Emphasis is placed on research strategies, exploration of statistical theories, problem-solving strategies unique to statistical applications, and computer laboratory instruction and demonstration. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)</td>
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<td>MATH 138 — CALCULUS FOR BUSINESS &amp; SOCIAL SCIENCES</td>
<td>3</td>
<td>54 Lecture Hours</td>
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<td>Prerequisite: Satisfactory completion of MATH 89 or qualification by the MJC assessment process.</td>
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<td>Concepts of functions and limits; applied calculus emphasizing techniques of differentiation and integration with applications directed primarily to business and the social sciences; partial derivatives. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: MATH 140) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)</td>
</tr>
<tr>
<td>MATH 161 — TRIGONOMETRY</td>
<td>4</td>
<td>72 Lecture Hours</td>
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<td>Prerequisite: Satisfactory completion of MATH 90 or qualification by the MJC assessment process.</td>
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<td>A comprehensive course in analytic geometry and trigonometry. Topics include: trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors. This serves as a one semester trigonometry course, or together with MATH 162, a two-semester Precalculus course sequence. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MATH 851) (CC MATH 8) General Education: (MJC-GE: D2)</td>
</tr>
<tr>
<td>MATH 162 — PRECALCULUS</td>
<td>4</td>
<td>72 Lecture Hours</td>
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<td>Prerequisite: Satisfactory completion of MATH 161.</td>
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<td>A comprehensive course in college algebra with integrated review of trigonometry topics in preparation for calculus. Topics include: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC MATH 16) General Education: (MJC-GE: D2)</td>
</tr>
<tr>
<td>MATH 171 — CALCULUS: FIRST COURSE</td>
<td>4</td>
<td>72 Lecture Hours</td>
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<td>Designed to supplement MATH 171 with additional assistance in developing problemsolving skills necessary for success. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)</td>
</tr>
<tr>
<td>MATH 172 — CALCULUS: SECOND COURSE</td>
<td>4</td>
<td>72 Lecture Hours</td>
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<td></td>
<td></td>
<td>A continuation of MATH 171. Topics include: techniques of integration, applications of integration, introductory differential equations, differentiation and integration of parametric and polar equations, and infinite sequences and series. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: MATH 16B) (C-ID: MATH 220, MATH 900 S) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)</td>
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<tr>
<td>MATH 173 — CALCULUS: THIRD COURSE</td>
<td>4</td>
<td>72 Lecture Hours</td>
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<td>A continuation of MATH 172. The extension of calculus concepts to three dimensions and functions of multiple variables. Topics include: vectors and solids in 3-space, the calculus of vectors, partial differentiation, multiple integration, applications of partial differentiation and integration, and line and surface integrals. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: MATH 16C) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)</td>
</tr>
<tr>
<td>MATH 174 — INTRODUCTION TO DIFFERENTIAL EQUATIONS &amp; LINEAR ALGEBRA</td>
<td>5</td>
<td>90 Lecture Hours</td>
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<td></td>
<td>Formerly listed as: MATH 174: Introduction to Linear Algebra &amp; Diff Equations</td>
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<td>Prerequisite: Satisfactory completion of MATH 173.</td>
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<td>Differential equation topics including solutions to first order equations, higher order linear equations, series solutions, systems of equations, and Laplace transforms. Linear algebra topics including linear equations, vector spaces, scalar products, linear transformations, determinants, and eigenvalues. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: MATH 910S) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)</td>
</tr>
<tr>
<td>MATH 181 — PROBLEM SOLVING FOR CALCULUS 1</td>
<td>1</td>
<td>18 Lecture Hours</td>
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<td>Corequisite: Concurrent enrollment in MATH 171.</td>
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<td>Designed to supplement Math 171 with additional assistance in developing problemsolving skills necessary for success. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)</td>
</tr>
<tr>
<td>MATH 182 — PROBLEM SOLVING FOR CALCULUS 2</td>
<td>1</td>
<td>18 Lecture Hours</td>
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<td>Corequisite: Concurrent enrollment in MATH 172.</td>
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<tr>
<td></td>
<td></td>
<td>Designed to supplement Math 172 with additional assistance in developing problemsolving skills necessary for success Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)</td>
</tr>
</tbody>
</table>

### MATH CALCULUS COURSES

**MATH 171 — CALCULUS: FIRST COURSE**

- **UNITS:** 4
- **Lecture Hours:** 72
- **Transfer:** (CSU, UC)
- **General Education:** (MJC-GE: D2) (CC MATH 8) (CSU-GE: B4) (IGETC: 2A)
- **Prerequisite:** Satisfactory completion of MATH 121 and MATH 122 or MATH 161 and MATH 162 or qualification by the MJC assessment process.
- **Fundamental foundations of differential and integral calculus. Topics include:** limits, continuity, differentiation, curve sketching, applications of differentiation, integration, the Fundamental Theorem of Calculus, and applications of integration. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: MATH 18A) (C-ID: MATH 210, MATH 900 S) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

**MATH 172 — CALCULUS: SECOND COURSE**

- **UNITS:** 4
- **Lecture Hours:** 72
- **Transfer:** (CSU, UC) (CC: MATH 18B) (C-ID: MATH 220, MATH 900 S) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

**MATH 173 — CALCULUS: THIRD COURSE**

- **UNITS:** 4
- **Lecture Hours:** 72
- **Transfer:** (CSU, UC) (CC: MATH 18C) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

**MATH 174 — INTRODUCTION TO DIFFERENTIAL EQUATIONS & LINEAR ALGEBRA**

- **UNITS:** 5
- **Lecture Hours:** 90
- **Transfer:** (CSU, UC) (C-ID: MATH 910S) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

**MATH 181 — PROBLEM SOLVING FOR CALCULUS 1**

- **UNITS:** 1
- **Lecture Hours:** 18
- **Transfer:** (CSU, UC)

**MATH 182 — PROBLEM SOLVING FOR CALCULUS 2**

- **UNITS:** 1
- **Lecture Hours:** 18
- **Transfer:** (CSU, UC)
MATH 183—PROBLEM SOLVING FOR CALCULUS 3 1 UNIT
18 Lecture Hours
Corequisite: Concurrent enrollment in MATH 173.
Designed to supplement Math 173 with additional assistance in developing problem-solving skills necessary for success. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

MATH NON-CREDIT COURSES

MATH 911—WHOLE NUMBERS 0 UNITS
12 Lecture Hours
An introduction to the arithmetic of the whole numbers. Includes addition, subtraction, multiplication, and division, along with basic applications. Course is repeatable. Field trips are not required. (Non-Graded course)

MATH 912—FRACTIONS 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 911.
An introduction to the arithmetic of fractions. Includes addition, subtraction, multiplication, and division, along with basic applications. Course is repeatable. Field trips are not required. (Non-Graded course)

MATH 913—DEIMALS AND PERCENTS 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 912.
An introduction to the arithmetic of decimals and percents. Includes addition, subtraction, multiplication, and division, along with basic applications. Course is repeatable. Field trips are not required. (Non-Graded course)

MATH 921—INTEGERS 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 913.
An introduction to the arithmetic of the integers. Includes addition, subtraction, multiplication, and division, along with basic expressions, equations, and applications. Course is repeatable. Field trips are not required. (Non-Graded course)

MATH 922—FRACTIONS, DECIMALS, AND INTEGERS 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 921.
An introduction to the arithmetic of the integers with fractions and decimals. Includes addition, subtraction, multiplication, and division, along with basic expressions, equations, and applications. Course is repeatable. Field trips are not required. (Non-Graded course)

MATH 923—PERCENTS, RATIOS, AND PROPORTIONS 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 922.

MATH 924—GRAPHING AND MEASUREMENT 0 UNITS
12 Lecture Hours
Prerequisite: Satisfactory completion of MATH 923.
An introduction to the cartesian coordinate graphing system and measurement. Course is repeatable. Field trips are not required. (Non-Graded course)

MDAST (MEDICAL ASSISTING)

MDAST 320—INTRODUCTION TO MEDICAL ASSISTING 3 UNITS
54 Lecture Hours
Corequisite: Concurrent enrollment in MDAST 322 and MDAST 323.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Orientation to the medical office and the role of the medical assistant. Professional relations and communications, ethics, and legal responsibilities; history of medicine and community health care facilities. Field trips might be required. (A-F Only) Not repeatable.

MDAST 321—MEDICAL TERMINOLOGY 3 UNITS
54 Lecture Hours
Emphasizing logical and rational understanding of word parts. Covers medical terms organized according to body systems, including fundamental understanding of basic anatomy, function, diseases, and surgeries of each body system. (A-F Only) Not repeatable. Transfer: (CC OFTEC 50)

MDAST 322—MEDICAL ASSISTING ADMINISTRATIVE PROCEDURES 3.5 UNITS
36 Lecture Hours, 81 Lab Hours
Formerly listed as: MDAST - 322: Medical Assisting Administrative
Corequisite: Concurrent enrollment in MDAST 320 and MDAST 323.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Medical Assisting Administrative procedures including financial record keeping, insurance claims, banking functions, payroll and medical records. Students receive training in completing the above procedures manually and by computer. Field trips might be required. (A-F Only) Not repeatable.

MDAST 323—MEDICAL ASSISTING CLINICAL PROCEDURES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Corequisite: Concurrent enrollment in MDAST 322 and MDAST 320.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Medical Assisting Program.
Clinical medical assisting skills, which pertain to preparing the patient for examination and assisting patient and physician during patient examination and treatment. The
assistant must anticipate the physician’s needs as to the type of examination, the specific equipment needed, and the extent of assistance required by the patient. This requires judgment based on a reasonable understanding of physical examinations, the methods and equipment used, and the related role of the medical assistant. Materials Fee Required. (A-F Only) Not repeatable.

**MDAST 324—INTRODUCTION TO DISEASE AND PHARMACOLOGY** 4 UNITS

63 Lecture Hours, 27 Lab Hours
Prerequisite: Satisfactory completion of MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 325 and MDAST 326.
Medical Terminology related to the human body in health and disease. Pathogenesis and discussion of representative diseases; signs and symptoms of many major diseases and basic drugs used in treatment. (A-F Only) Not repeatable.

**MDAST 325—MEDICAL ASSISTING LABORATORY PROCEDURES** 3 UNITS

36 Lecture Hours, 54 Lab Hours
Formerly listed as: MDAST - 325: Lab Procedures
Prerequisite: Satisfactory completion of MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 324 and MDAST 326.
Introduction to laboratory procedures necessary to aid the physician. Includes patient preparation for diagnostic studies, purposes, techniques, and recording of procedures commonly performed. Field trips might be required. (A-F Only) Not repeatable.

**MDAST 326—MEDICAL ASSISTING PRACTICUM** 7 UNITS

36 Lecture Hours, 270 Lab Hours
Formerly listed as: MDAST - 326: Externship
Prerequisite: Satisfactory completion of MDAST 320 and MDAST 322 and MDAST 323.
Corequisite: Concurrent enrollment in MDAST 324 and MDAST 325.
PRACTICUM portion of the program consists of two 8-week rotations in which students apply knowledge in performing administrative and clinical procedures. Students also receive training in taking the national certification exam and seeking employment. (A-F Only) Not repeatable.

**METEO (METEOROLOGY)**

**METEO 161 INTRODUCTION TO METEOROLOGY** 4 UNITS

54 Lecture Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EASCI 161 and satisfactorily complete MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
Introduction to atmospheric structure, weather monitoring techniques, solar radiation, thermodynamics, air pressure, humidity, cloud formation, wind patterns, planetary circulation patterns, storms and severe weather (including thunderstorms, tornadoes, and hurricanes), and the causes and consequences of climate and climate change. Lab activities emphasize gathering and analysis of meteorological data (both archived and real-time) to understand and predict weather events. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5B, 5C)

**MICRO (MICROBIOLOGY)**

**MICRO 101—MICROBIOLOGY** 4 UNITS

54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 143 or CHEM 101.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BIO 111 or satisfactorily complete BIO 116 or satisfactorily complete BIO 101
Includes the study of microorganisms, microbial metabolism, genetics, and varieties; immunity, infections, and antimicrobials. Intended mainly for student entering the health professions. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2, B3) (IGETC: 5B, 5C)

**MICRO 111—PLAGUES OF HUMANKIND** 3 UNITS

54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
An overview of various diseases that have plagued humanity over history. Designed for non-majors with an interest in science and public health. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: A)

**MUSA (MUSIC: APPLIED)**

See “Repeat Limitations on Music Courses.” Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

**MUSA 121—Keyboard Skills 1** 1 UNIT

54 Lab Hours
Formerly listed as: MUSA - 121: Elementary Piano, MUSIC - 120: Elementary Piano
Essentials of music notation; fundamentals of rhythm, tone production and the coordinated use of both hands; introduction of scales and chords; methods of practice and memorization. Completion of MUSA 121, Elementary Piano is recommended for all general elementary teaching candidates. Electronic keyboard lab and acoustic upright piano practice rooms available. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (CC MUSIC 31A) Local Requirement: (Activities)

**MUSA 122—PIANO ENRICHMENT** 1 UNIT

54 Lab Hours
Formerly listed as: MUSIC - 121: Piano Enrichment
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 121.
Continued development of piano technique, understanding of rhythmic skills and basic music theory. Emphasis upon sight reading and ensemble playing. Electronic piano lab and practice rooms available. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)
MUSA 123—INTERMEDIATE PIANO
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 122
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 122.
Further study of piano technique, tone production, efficient use of physical self; detailed study diatonic scales and harmonic progressions; attention given to improving sight reading skills, learning process, musical interpretation of the score, memorization techniques and performance skills; introduction to intermediate level repertoire from various stylistic periods; participation in live performance demonstrations as well as live student recital at the end of term. Field trips might be required. Two completions allowed. (A-F or P/NP) Transfer: (CSU, UC) (CC MUSIC 41A & 41B) Local Requirement: (Activities)

MUSA 124—APPLIED PIANO
1 UNIT
54 Lab Hours
Formerly listed as: MUSA - 124: Advanced Piano, MUSIC - 123: Advanced Piano
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 123.
Limitations on Enrollment: Enrollment limited to students who pass an audition. Intended for Music Majors only. Instruction in technical, stylistic, and aesthetic elements of piano performance. Detailed study of technique; study of advanced repertoire and literature from all stylistic periods, from Baroque to contemporary. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) (C-ID: MUS 160) (CC MUSIC 51) Local Requirement: (Activities)

MUSA 141—ELEMENTARY GUITAR
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC - 163: Elementary Guitar
Examination of the basic elements of classical guitar technique and repertoire. Technical works will emphasize posture, correct right- and left-hand technique, as well as treble clef note-reading in first position. The course will introduce sight-reading on easy melodies, as well as chord charts. Chord coverage will include: closed finger chords, opened finger chords, and bar chords. The student is responsible for providing a nylon-strung classical guitar, a guitar tuner, and a foot-stool. All students will perform in a semi-formal performance at the end of the semester. Field trips are not required. (AF or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 49) Local Requirement: (Activities)

MUSA 142—GUITAR PERFORMANCE
1 UNIT
18 Lecture Hours
Formerly listed as: MUSA 142: Guitar Enrichment, MUSIC - 164: Guitar Enrichment
Prerequisite: Satisfactory completion of MUSA 141.
Continuation of MUSA 141. Focus on group performances and an introduction to solo performance. Students will learn to follow notation up to the fifth position in solo and smaller ensembles. Intermediate techniques including tremolo, flamenco strumming, and harmonic playing. Technical exercises and techniques to develop finger independence. A classical, nylon-stringed guitar is strongly recommended for use in the course. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 143—GUITAR ENRICHMENT
1 UNIT
54 Lab Hours
Formerly listed as: MUSA - 143: Guitar Advancement, MUSIC - 174: Guitar Advancement
Prerequisite: Satisfactory completion of MUSA 141.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 142.
Improvement of guitarist accompaniment technique, analytical skills, and performance competence. Music education majors are strongly encouraged to enroll. Special attention will be given to performance in solo and group settings. Students will be required to participate in a formal recital at the end of the term. A nylon-strung classical or flamenco guitar is required for the course. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 144—INTERMEDIATE GUITAR
1 UNIT
54 Lab Hours
Formerly listed as MUSIC 165
Prerequisite: Satisfactory completion of MUSA 141.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 142 or satisfactorily complete MUSA 143.
Further development of guitar performance skills and techniques. Particular attention will be given to technical exercises and the performance practices surrounding the classical and flamenco intermediate repertoire. Students will need a Nylon-strung classical guitar. Two public performances (mid-term and final) will be connected to this course. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 145—APPLIED CLASSICAL GUITAR
1 UNIT
18 Lecture Hours
Formerly listed as: MUSIC 166
Limitations on Enrollment: Enrollment limited to students who pass an audition.
Study and performance of guitar solo literature, etudes, scales and technical exercises. Designed for performance music majors intending to transfer to four-year institutions or advanced players. Recital and public participation required. Student must own or have access to an instrument appropriate to this course. Four completions allowed. Field trips are required. (A-F or P/NP) Transfer: (CSU, UC) (CC MUSIC 50) Local Requirement: (Activities)

MUSA 151—ELEMENTARY VOICE 1
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 131
Development of singing voice through consideration and application of the basic elements of tone production, i.e., breathing/resonance, diction posture; principles applied through group and individual vocal exercises and singing. This is the first of two preparatory courses for students who intend to take voice classes at the major level. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 36) Local Requirement: (Activities)
MUSA 152—ELEMENTARY VOICE 2  
54 Lab Hours  
Formerly listed as MUSIC 132: Voice Enrichment  
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous vocal experience.  
Further development of the singing voice through consideration and application of the basic elements of tone production, i.e., breathing, resonance, diction, posture; principles applied through group and individual vocal exercises and singing. Field trips might be required. Laboratory. Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 153—APPLIED VOCAL REPERTOIRE 1  
54 Lab Hours  
Formerly listed as: MUSIC 133 - Intermediate Voice  
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.  
Study and performance of vocal solo literature with emphasis on building repertoire; development of style, and preparation for recitals. Recital and public performance participation required. This class is intended for voice majors. Necessary for transfer to a four year University as a music major. Two completions allowed. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 154—APPLIED VOCAL REPERTOIRE 2  
18 Lecture Hours  
Formerly listed as: MUSIC 134  
Prerequisite: Satisfactory completion of MUSA 153.  
Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.  
Continuation of MUSA 153 with greater emphasis on building repertoire, development of style, and preparation for transfer auditions, auditions in general and recitals. Recital and public performance participation required. This class is intended for voice majors. This is a necessary class to transfer as a music major to a four year university. 9. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 155—VOCAL MASTER CLASS  
54 Lab Hours  
Formerly listed as: MUSIC 139  
Development of vocal performance technique through the consideration and application of good vocal technique, performance practice and dramatic character development; principles applied through recital attendance and through solo, duet or ensemble performances in class and public recitals. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 161—ELEMENTARY STRINGS  
54 Lab Hours  
Formerly listed as: MUSIC - 127: Elementary Strings  
Introduction to playing orchestral stringed instruments (violin, viola, cello, or bass). Designed for students with no previous instrumental music experience, students who wish to review fundamentals of string playing, or experienced instrumentalists who wish to learn a new instrument. Students must own or have access to a bowed string instrument. Public performance required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 162—INTERMEDIATE STRINGS  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous vocal experience.  
Designed for the continuing string student at the intermediate level on Violin, Viola, Cello, or Bass. Students must own or have access to a bowed string instrument. Public performance required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 163—APPLIED MUSIC (VIOLIN AND VIOLA)  
18 Lecture Hours  
Formerly listed as: MUSIC - 128: Applied Music (Violin and Viola)  
Limitations on Enrollment: Enrollment limited to students who pass an audition.  
Study and performance of violin or viola technique and literature. Public performance participation required. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 164—Applied Music (Cello and Bass)  
18 Lecture Hours  
Formerly listed as: MUSIC - 129: Applied Cello and Bass  
Limitations on Enrollment: Enrollment limited to students who pass an audition.  
Study and performance of cello or bass technique and literature. Recital and public performance participation required. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 173—APPLIED BRASS AND PERCUSSION  
18 Lecture Hours  
Formerly listed as: MUSA 173: Applied Music (Brass and Percussion), MUSIC 142: Applied Music (Brass & Percussion)  
Limitations on Enrollment: Enrollment limited to students who pass an audition.  
Study and performance of brass and percussion solo literature, etudes, scales, and technical studies. Intended for music majors and/or advanced players. Recital and public performance participation required. Student must own or have access to an instrument appropriate for this course. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSA 183—APPLIED WOODWINDS  
18 Lecture Hours  
Formerly listed as: MUSA 183: Applied Music (Woodwinds), MUSIC 144: Applied Music (Woodwind)  
Limitations on Enrollment: Enrollment limited to students who pass an audition.  
Study and performance of woodwind solo literature, etudes, scales, and technical studies. Intended for music majors and/or advanced players. Recital and public performance participation required. Student must own or have access to an instrument appropriate for this course. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)
MUSC (MUSIC: COMMERCIAL)
See “Repeat Limitations on Music Courses.” Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

MUSC 111—RECORDING ARTS 1
18 Lecture Hours, 54 Lab Hours
Formerly listed as: MUSIC - 172: Recording Arts 1
This course is an introduction to audio recording. It covers fundamental concepts and techniques, including basic acoustics, signal flow, microphone principles and usage, studio equipment, signal processing, recording console functions, and multi-track recording procedures. Lab Activities will be required. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (C-ID: CMUS 130X) Local Requirement: (Activities)

MUSC 112—RECORDING ARTS 2
18 Lecture Hours, 54 Lab Hours
Formerly listed as: MUSIC - 178: Recording Arts 2
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 111.
Advanced topics in the recording studio relating to the digital recording process. In depth study of microphone choice and placement, microphone pre-amplifiers and analog processors, direct inputting, non-destructive digital editing, software plug-ins, automation techniques, mixing and mastering in the recording process. Lab time will be required. Two completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU) Local Requirement: (Activities)

MUSC 121—ELECTRONIC MUSIC 1
18 Lecture Hours, 54 Lab Hours
Formerly listed as: MUSC 121: Introduction to the Synthesizer and MIDI, MUSIC 170: Introduction to the Synthesizer and MIDI
This course introduces the techniques and elements of electronic music production. Topics include synthesis, sampling, and MIDI sequencing. Compositions are expected of students utilizing electronic music techniques. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (C-ID: CMUS 110X) Local Requirement: (Activities)

MUSC 122—ELECTRONIC MUSIC 2
18 Lecture Hours, 54 Lab Hours
Formerly listed as: MUSIC - 171: Electronic Music 2
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 121 or have previous synthesizer, tape recording and MIDI music studio experience.
Applied topics in electronic music composition, MIDI (Musical Instrument Digital Interface) electronic music studio procedures, sampling, tape and digital recording. Performance in an electronic music concert is expected. Two completions allowed. Field trips are not required. (A-F or P/NP) Transfer: (CSU) Local Requirement: (Activities)

MUSC 126—INTRODUCTION TO MUSIC TECHNOLOGY
3 UNITS
27 Lecture Hours, 81 Lab Hours
Formerly listed as: MUSC - 126: Music Production for Multimedia, MUSIC - 168: Music Production for Multimedia
This introductory course examines the terminology, equipment, techniques, and concepts related to music technology. The course will survey the principles and practices of sound, MIDI, synthesis, notation, and audio recording utilizing hardware and software platforms. Music composition and production of music for radio productions, abstract animations, commercials, jingles and TV/film scoring will also be explored. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU) (C-ID: CMUS 100X) Local Requirement: (Activities)

MUSE (MUSIC: ENSEMBLE)
See “Repeat Limitations on Music Courses.” Students must meet performance and repertoire standards before proceeding to successive levels in the following classes.

MUSE 145—GUITAR ORCHESTRA
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 173
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete or be concurrently enrolled in MUSA 141.
Emphasis on guitar ensemble repertoire, preparation and performance. Required participation and performance in large and small ensembles. Students will be assigned to groups that will perform in mandatory graded concert performances throughout the course. Students should be prepared to perform in different venues and represent the college’s guitar department. Four completions allowed. Field trips are required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 151—MASTERWORKS CHORUS
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 154
Previous experience in a large choral ensemble.
A choral ensemble for all levels of singers. Study and performance of either one large scale work or program of shorter choral works, drawn from the standard repertoire of classical, folk, and popular music. Public performances required. Four completions allowed. Laboratory. Transfer: (CSU, UC) (CC MUSIC 66) Local Requirement: (Activities)

MUSE 155—CONCERT CHOIR
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC - 152: Concert Choir
Limitations on Enrollment: Enrollment limited to students who pass an audition.
A large choral ensemble for intermediate and advanced level singers. This course is for the study, rehearsal, and public performance of choral/vocal literature from a variety of historical periods, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) (CC MUSIC 66) Local Requirement: (Activities)
MUSE 156 — Chamber Choir
54 Lab Hours
Formerly listed as: MUSIC - 153: Chamber Choir
Limitations on Enrollment: Enrollment limited to students who pass an audition.
A small choral ensemble for advanced singers. Public performances of historically and culturally varied music. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 161 — Community Orchestra
54 Lab Hours
Formerly listed as: MUSIC 162
Limitations on Enrollment: Enrollment limited to students who pass an audition.
Rehearsal and public performance of orchestral literature. Repertoire will include works from many eras and a variety of cultures. Focus on developing ensemble balance and tone color, good intonation, rhythmic and stylistic integrity. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 176) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 165 — String Orchestra
54 Lab Hours
Formerly listed as: MUSIC 150
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSA 163 or satisfactorily complete MUSA 164.
Limitations on Enrollment: Enrollment limited to students who perform satisfactorily in an audition, demonstrating ability to sight read music, play scales, and adjust intonation on a bowed spring instrument.
Rehearsal and public performance of orchestral music for strings (from all eras and a variety of cultures). Focus on developing bowing and left hand technique. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 171 — Concert Band
54 Lab Hours
Formerly listed as: MUSIC 161
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous experience playing in a band and have college-level music reading skills.
Rehearsal and performance of original wind literature and transcriptions for concert band. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSE 175 — Symphonic Band
54 Lab Hours
Formerly listed as: MUSIC 146
Limitations on Enrollment: Enrollment limited to students who pass an audition.
Rehearsal and performance of original wind band literature and transcriptions for band. Public performances are required. Student must own or have access to an appropriate instrument. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 176 — Chamber Ensembles (Band Instruments)
1 UNIT
18 Lecture Hours
Formerly listed as: MUSIC - 145: Chamber Ensembles (Band Instruments)
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous experience playing a wind or percussion instrument and have college-level music reading skills.
Rehearsal and performance of chamber ensemble literature. Ensembles may be made up of varying numbers of woodwind, brass, and percussion instruments. Recital and public performance participation required. Student must own or have access to an appropriate instrument. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) Local Requirement: (Activities)

MUSE 181 — Jazz Band
54 Lab Hours
Formerly listed as: MUSIC 149
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous experience playing jazz music (one player per part). Student must own or have access to an appropriate instrument.
Study and performance of jazz literature in both traditional and contemporary styles. Public performances required. Student must own or have access to an appropriate instrument. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 180) (C-ID: MUS 72) Local Requirement: (Activities)

MUSE 851 — Masterworks Chorus
54 Lab Hours
Formerly listed as: OLDAD 854
Study and performance of either one large-scale work or program of shorter works. Public performance required. Not a graded course. Unlimited repeats. Laboratory.

MUSE 861 — Community Orchestra
54 Lab Hours
Formerly listed as: OLDAD 862
Recommended for Success: Before enrolling in this course, students are strongly advised to previous experience in Instrumental Music.
Study and performance of a combination of large-scale and shorter works for orchestra. Public performance Field trips might be required. Laboratory. Unlimited repeats. Not a graded course.

MUSE 871 — Concert Band
54 Lab Hours
Formerly listed as: OLDAD 861
Rehearsal and performance of original wind literature and transcriptions for concert band. Field trips might be required. Unlimited repeats. Laboratory. Not a graded cours
MUSG (MUSIC: GENERAL)

MUSG 101—MUSIC APPRECIATION 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 110: Music Appreciation
A survey course emphasizing the development of the listener's perception of the basic elements of music. Course content examines various types of folk and traditional music, traditional classical music from a variety of historical periods, and musical material of a contemporary nature. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: MUSG 101) (C-ID: MUS 100) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSG 102—INTRODUCTION TO WORLD MUSIC 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 169: Introduction to World Music
Exploration of traditional/contemporary folk music of Africa, Asia, Latin America Europe and the U.S. from the perspective of music as culture. Investigations of the impact/influence of migratory patterns, social-political processes, and how ethnicities (groups that exist by language and customs) are reflected in music. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSG 111—INTRODUCTION TO AMERICAN POPULAR MUSIC 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 118
Survey course emphasizing the listeners perception and understanding of the elements of American Popular Music. Illustrations will cover Folk, Jazz, Musical Theatre and Rock styles of popular music. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSG 112—THE MUSIC OF THE BEATLES 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 190
A survey of the musical styles by the Beatles dating from 1958-1970. Emphasis will be placed on identifying the various musical periods, the stylistic practices in their compositions, their performances and interviews. (A-F Only) Not repeatable. Transfer: (CSU, UC)

MUSG 121—HISTORY OF WESTERN MUSIC 1 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 112
Survey of musical styles by master composers dating from the ancient period through the end of the baroque period (1750). Various historical periods, the stylistic practices in composition and performance, musical compositions of the most prominent composers from each historical period. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 10) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSG 122—HISTORY OF WESTERN MUSIC 2 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 113
A general survey of the musical styles by master composers dating from the classical period (1750) to the present. Emphasis will be placed on identifying the various historical periods, the stylistic practices in composition and performance, and utilizing the musical compositions of the most prominent composers from each historical period. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 11) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUSP (MUSIC: STAGE PRODUCTION)

MUSP 151—MUSICAL THEATRE WORKSHOP 2 UNITS
108 Lab Hours
Formerly listed as: MUSIC 157
Recommended for Success: Before enrolling in this course, students are strongly advised to have previous vocal experience. Intended for those interested in singing and acting. Study and performance of musical theatre. Public performance is required. Two completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

MUSP 153—ADVANCED MUSICAL THEATRE WORKSHOP 2 UNITS
108 Lab Hours
Formerly listed as: MUSIC 158
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSP 151.
Intended for those interested in singing and acting. Study and performance of musical theatre. Public performance is required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

MUST (MUSIC: THEORY)

MUST 101—MUSIC FUNDAMENTALS 3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 100: Music Fundamentals 1, MUST 101: Music Fundamentals 1
Music Fundamentals incorporates basic music theory concepts such as musical notation, sound, rhythm, tonality, scales, intervals, key signatures, triads and seventh chords; basic aural skills concepts such as rhythm drills and sight-singing using Solfege. Designed to meet the needs of the music majors with little to no music theory background, as well as non-music majors and prospective elementary school teachers. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: MUS 110) General Education: (MJC-GE: C)
M: MUST

MUST 121—MUSIC THEORY 1
3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 102: Music Theory 1
Prerequisite: Satisfactory completion of MUST 101.
Corequisite: Concurrent enrollment in MUST 131
Music Theory 1 incorporates the following concepts: rhythm and meter; scales and key signatures; intervals; diatonic triads and seventh chords; development of skills in four-part handwritten musical notation; basic cadential formulas and phrase structure; figured bass; structural and embellishing tones; guided composition and analysis. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU, UC) (CC: MUSIC 20A) (C-ID: MUS 120) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUST 122—MUSIC THEORY 2
3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 103: Music Theory 2
Prerequisite: Satisfactory completion of MUST 121.
Corequisite: Concurrent enrollment in MUST 132.
Music Theory 2 incorporates all concepts from Music Theory 1. In addition, through guided composition and analysis, it includes: an introduction to two-part counterpoint; voice leading involving four-part chorale-style writing; diatonic harmony; introduction to secondary dominants or applied chords; introduction to tonicization and modulation. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: MUSIC 20B) (C-ID: MUS 130) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUST 123—MUSIC THEORY 3
3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 106: Music Theory 3
Prerequisite: Satisfactory completion of MUST 122.
Recommended for Success: Before enrolling in this course, students are strongly advised to concurrently enroll in MUST 133.
This course incorporates concepts from Music Theory 2. In addition, the course continues the development of writing and analytical techniques of tonal music through writing in 4 parts, figured bass, Roman numeral analysis, and guided composition exercises. Introduction to chromatic harmony; modulation; modal mixture; Binary and Ternary forms; Sonata Form Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 21A) (C-ID: MUS 140) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUST 124—MUSIC THEORY 4
3 UNITS
54 Lecture Hours
Formerly listed as: MUSIC 107: Music Theory 4
Prerequisite: Satisfactory completion of MUST 123
This course incorporates concepts from Music Theory 3. In addition, the course continues the development of analytical techniques, guided composition and figured bass realization in 4 parts; continued overview of larger forms such as Sonata and Rondo; study of harmonic procedures at the edge of tonality; chromatic modulation; reinterpretation of diminished 7th chords; chromatic sequences; introduction to 20th Century compositional techniques and styles such as Symbolism / Impressionism, serialism and polytonalism.
Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 21B) (C-ID: MUS 150) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

MUST 131—AURAL SKILLS 1
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 104: Aural Skills 1
Corequisite: Concurrent enrollment in or satisfactory completion of MUST 121.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUST 101 and concurrently enroll in a lab experience such as MUST 130, Practica Musica.
Supplements the study of written music theory (MUST 121) by practical application of singing, ear-training, and performance techniques; integration of the two basic musical elements pitch and rhythm through weekly singing of diatonic melodies from textbook using movable Do Solfege; analysis, rhythmic and melodic dictation; use of computer assisted instruction in Practica Musica, lab portion of the class (MUST 130). Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 4A) (C-ID: MUS 125) Local Requirement: (Activities)

MUST 132—AURAL SKILLS 2
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 105: Aural Skills 2
Prerequisite: Satisfactory completion of MUST 131.
Corequisite: Concurrent enrollment in or satisfactory completion of MUST 122.
Sequential continuation of MUST 131, Aural Skills 1; supplements the study of written music theory (MUST 122) by practical application of singing, ear-training, and performance techniques; further development of musicianship skills through weekly singing of diatonic melodies from textbook using movable Do Solfege; analysis, rhythmic and melodic dictation; use of computer assisted instruction in Practica Musica, lab portion of the class (MUST 130). Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC MUSIC 4B) (C-ID: MUS 135) Local Requirement: (Activities)

MUST 133—AURAL SKILLS 3
1 UNIT
54 Lab Hours
Formerly listed as: MUSIC 108: Aural Skills 3
Prerequisite: Satisfactory completion of MUST 132.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUST 123.
Sequential continuation of MUST 132, Aural Skills 2; supplements the study of written music theory (MUST 123) by practical application of singing, ear-training, and performance techniques; further development of musicianship skills through weekly singing of diatonic as well as chromatic melodies from textbook using movable Do Solfege and conducting; basic keyboard skills to harmonize weekly melodies and achieve correct intonation; analysis, rhythmic, melodic and harmonic dictation; use of computer assisted instruction in Practica Musica, lab portion of the class (MUST 130). Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (CID:MUS 145) (CC MUSIC 5A) Local Requirement: (Activities)
MUSC 134—AURAL SKILLS 4  
34 Lab Hours  
Formerly listed as: MUSIC - 109: Aural Skills 4  
Prerequisite: Satisfactory completion of MUST 133.  
Corequisite: Concurrent enrollment in or satisfactory completion of MUSC 124.  
Sequential continuation of MUSC 133, Aural Skills 3; supplements the study of written music theory (MUSC 124) by practical application of sight singing, ear training, analysis and dictation; further development of musicianship skills through weekly singing of chromatic and atonal melodies with conducting; further development of keyboard skills to harmonize weekly melodies. Field trips might be required. (A-F Only) Not repeatable.  
Transfer: (CSU, UC) (CC MUSIC 5B) (CID: MUS 155)  
Local Requirement: (Activities)

MUSC 141—MUSICIANSHIP AND GUIDED LISTENING 1  
18 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 101.  
Musicianship and Guided Listening is a series of 4 sequential courses designed to complement Music Theory and Aural Skills classes. Development of aural and rhythmic skills by means of computer assisted participation in the music lab. Exposure to landmark works from the standard western art music repertoire by means of guided listening. Refinement of listening skills; attainment and development of proper terminology to describe musical events and parameters. Field trips might be required. (P/NP Only) Not repeatable.  
Transfer: (CSU)  
Local Requirement: (Activities)

MUSC 142—MUSICIANSHIP AND GUIDED LISTENING 2  
18 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 101.  
Musicianship and Guided Listening is a series of 4 sequential courses designed to complement Music Theory and Aural Skills classes. Development of aural and rhythmic skills by means of computer assisted participation in the music lab. Exposure to landmark works from the standard western art music repertoire by means of guided listening. Refinement of listening skills; attainment and development of proper terminology to describe musical events and parameters. Field trips might be required. (P/NP Only) Not repeatable.  
Transfer: (CSU)  
Local Requirement: (Activities)

MUSC 143—MUSICIANSHIP AND GUIDED LISTENING 3  
18 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 101.  
Musicianship and Guided Listening is a series of 4 sequential courses designed to complement Music Theory and Aural Skills classes. Development of aural and rhythmic skills by means of computer assisted participation in the music lab. Exposure to landmark works from the standard western art music repertoire by means of guided listening. Refinement of listening skills; attainment and development of proper terminology to describe musical events and parameters. Field trips might be required. (P/NP Only) Not repeatable.  
Transfer: (CSU)  
Local Requirement: (Activities)

MUSC 144—MUSICIANSHIP AND GUIDED LISTENING 4  
18 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 101.  
Musicianship and Guided Listening is a series of 4 sequential courses designed to complement Music Theory and Aural Skills classes. Development of aural and rhythmic skills by means of computer assisted participation in the music lab. Exposure to landmark works from the standard western art music repertoire by means of guided listening. Refinement of listening skills; attainment and development of proper terminology to describe musical events and parameters. Field trips might be required. (P/NP Only) Not repeatable.  
Transfer: (CSU)  
Local Requirement: (Activities)

NR (NATURAL RESOURCES)

In this program the student will develop skills and knowledge in animal/plant science and I.D., mechanics, communications, public relations, and computations specific to become a park ranger maintenance person, or private entrepreneur in allied jobs including game farm worker. This program will also prepare the student for Transfer to a state university or university program when the General Education requirements are completed. Contact the division office in the Agriculture Building for advising assistance.

NR 200—SOILS  
3 UNITS  
54 Lecture Hours, 54 Lab Hours  
Study of soil derivation, classification and characteristics related to natural and human systems. Soil as a natural system including chemistry, ecology and geology. Soil use and management including erosion, moisture retention, structure, cultivation and organic matter. Special emphasis placed on the relationship between natural and agronomic soil systems. Laboratory topics include soil type, classification, soil chemistry, water and nutrient management and soil microbiology. Field trips are required. (A-F Only) Not repeatable.  
Transfer: (CSU, UC)  
General Education: (MUC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C) (CID AG-AP 128L)

NR 222—NATIVE TREE AND SHRUB IDENTIFICATION  
3 UNITS  
36 Lecture Hours, 54 Lab Hours  
The study of botanical characteristics, taxonomy, physiology, and community relationships of the major trees and shrubs in California and the Western United States. Includes discussion of commercial uses and geographic ranges of native plants common to the region. Field trips outside of regular class hours. Field trips required. (A-F Only) Not repeatable.  
Transfer: (CSU)

NURSE

NURSE 52—NURSE ASSISTANT  
5 UNITS  
Formerly listed as: NURSE - 40: Nurse Assistant  
54 Lecture Hours, 108 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to obtain a GED or High School diploma.  
Limitations on Enrollment: Enrollment limited to students with no prior felony convictions.  
Preparation for employment as a nurse assistant in a skilled nursing facility. Upon satisfactory completion of the course, the student is eligible to take the state examination
NURSE 33—CERTIFIED HOME HEALTH AIDE 2 UNITS
27 Lecture Hours, 27 Lab Hours
Theory and laboratory experiences required for state-certified nursing assistants to become eligible for home health aide certification. Content includes: orientation to home health care, personal care of clients including medical and social needs; nutrition, safety and cleanliness in the home. Field trips are not required. (A-F Only) Not repeatable.

NURSE 115—INTRODUCTION TO NURSING MAJORS 1 UNIT
18 Lecture Hours
Formerly listed as NURSE 115 - Guidance for Nursing Majors
Acquaints students with the academic requirements and curriculum for the Associate Degree Nursing program. Students gain insight into the role and function of the nurse. Students analyze their educational needs and goals and choose alternatives to enhance success through nursing education. Students will understand the curriculum requirements that pertain to them and begin to formulate an educational plan for an Associate of Nursing program. Students gain insight into the role and function of the nurse. Content includes nursing process as it applies to the adaptation theory of nursing. 36 Lecture Hours

NURSE 259—LVN TRANSITION: ROLE CHANGE PREPARATION 2 UNITS
27 Lecture Hours, 27 Lab Hours
Formerly listed as NURSE 259 - LVN Transition: Preparing for a Role Change
Limitations on Enrollment: Enrollment limited to students who are Licensed Vocational Nurses/Licensed Practical Nurses with an active license and IV certification and a score of 62 or greater on the Test of Essential Academic Skills (TEAS). Prerequisite: Satisfactory completion of ANAT 125 and MICRO 101 and PHYSIO 101 and ENGL 101.
The focus of this course is on nursing knowledge and skills that the LVN student needs in order to provide the basis for transition of information and skills required of the registered nurse. Content includes nursing practice as it applies to the adaptation theory of nursing practice, LVN role transition to registered nurse, assessment of physical and psychosocial adaptations, pharmacology, and math for medication calculation. Emphasis is on critical thinking in the clinical setting as it applies to nursing practice. Materials fee required. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 270—NURSING PROCESS: PHARMACOLOGY 2 UNITS
Formerly listed as: NURSE 260: Nursing Process: Pharmacology
36 Lecture Hours
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Associate Degree Nursing Program.
Introduction to concepts of pharmacology, including pharmacokinetics, pharmaceutical systems of measurements & calculations, drug classifications, and nursing responsibilities in medication administration. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 271—NURSING PROCESS: FUNDAMENTALS 6.50 UNITS
54 Lecture Hours, 189 Lab Hours
Formerly listed as: NURSE 261: Nursing Process: Fundamentals
Corequisite: Concurrent enrollment in NURSK 800.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Associate Degree Nursing Program.
Applies fundamental concepts and principles of the nursing process to the care and needs of patients within the acute care setting. The primary focus of the course is on assessment and care of patients experiencing alterations in basic health needs. Students practice basic clinical skills in a simulated lab setting prior to beginning care in the acute care facility. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 272—NURSING PROCESS: GERIATRIC NURSING 1 UNIT
9 Lecture Hours, 27 Lab Hours
Limitations on Enrollment: Enrollment limited to students who are accepted into the Associate Degree Nursing program.
The focus of this course is on nursing knowledge in order to provide nursing care for the geriatric population. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

NURSE 273—NURSING PROCESS: MATERNAL-CHILD NURSING 6.50 UNITS
54 Lecture Hours, 189 Lab Hours
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Associate Degree Nursing program.
Applies basic principles and concepts of the nursing process to meet the needs of the childbearing woman, childbearing family, and the pediatric patient. Family-centered care in the hospital and out-patient settings, along with health maintenance, prevention of illness, and patient/family teaching will be emphasized. Skills included in this course include venipuncture, intravenous fluid administration, intravenous medication administration, and enteral nutrition. Materials fee required. Materials fee required. Field trips are not required. Transfer: (CSU)

NURSE 274—NURSING PROCESS: MENTAL HEALTH 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: NURSE - 266: Nursing Process: Mental Health
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Associate Degree Nursing Program.
Applies the principles and concepts of the nursing process to meet the need of clients with psychiatric disorders across the life span. Mental health maintenance, prevention of illness, patient/family teaching, and therapeutic relationships will be emphasized. Students will be assigned to an acute psychiatric setting and tertiary areas that support and provide community mental health care services. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

NURSE 275—NURSING PROCESS: MEDICAL-SURGICAL 7 UNITS
63 Lecture Hours, 189 Lab Hours
Formerly listed as: NURSE - 265: Nursing Process: Medical-Surgical
Corequisite: Concurrent enrollment in NURSK 800.
Limitations on Enrollment: Enrollment limited to students who have been accepted into the Associate Degree Nursing Program.
This course applies the principles of the nursing process to the care and adaptation of adult patients with disorders of the respiratory, cardiovascular, hematologic, and immune systems, as well as principles of oncologic nursing. The leadership role of the nurse as manager of care and member of the profession is integrated into clinical expectations and experiences. Clinical applications of theory include case studies, evidence-based practice, specialized assessments, and complex skills. The principles of Quality and Safety Education in Nursing (QSEN) and the Roy Adaptation Model are integral to this course. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 278—ADVANCED MEDICAL-SURGICAL NURSING PROCESS 10 UNITS
108 Lab Hours
Prerequisite: Satisfactory completion of NURSE 270 and NURSE 271.

Preparation for success: Before enrolling in this course, students are strongly advised to complete at least one semester of keyboarding and type a minimum of 45 gross words per minute on a five-minute timing.

First two modules of OFADM 203. Further development of keyboarding with an emphasis on speed and accuracy; practice and drill on production keyboarding; drill and practice on formatting techniques and procedures for setting up business letters, academic and business reports, tables, business forms, including interoffice memoranda, resumes, minutes, and agendas. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 279—COMMUNITY NURSING 6 UNITS
72 Lecture Hours, 30 Lab Hours
Corequisite: Concurrent enrollment in NURSE 270.

Preparation for success: Before enrolling in this course, students are strongly advised to complete at least one semester of keyboarding and type a minimum of 45 gross words per minute on a five-minute timing.

Provides simulated clinical experiences in a supervised laboratory setting for students of NURSE 270 or NURSE 275 or NURSE 52 or NURSE 561 or NURSE 278 or NURSE 279 or NURSE 273 or NURSE 272 or NURSE 271.

NURSK 800—NURSING SKILLS DEVELOPMENT 30 Lab Hours
Corequisite: Concurrent enrollment in NURSE 271 or NURSE 272 or NURSE 273 or NURSE 274 or NURSE 275 or NURSE 259 or NURSE 52 or NURSE 561 or NURSE 562.

Provides simulated clinical experiences in a supervised laboratory setting for students who must use the Allied Health skills laboratory to achieve the objectives of a course in which they are enrolled. (Non-Graded course) Unlimited repeats.

OFADM 201—INTERMEDIATE KEYBOARDING 1 1 UNIT
18 Lecture Hours
Formerly listed as: OFADM 201: Intermediate Keyboarding

Recommended for success: Before enrolling in this course, students are strongly advised to complete at least one semester of keyboarding and type a minimum of 45 gross words per minute on a five-minute timing.

First of three modules in OFADM 203. Further development of keyboarding with an emphasis on speed and accuracy; practice and drill on production keyboarding; drill and practice on formatting techniques and procedures for setting up business letters, academic and business reports, tables, business forms, including interoffice memoranda, resumes, minutes, and agendas. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

NURSE 275—ADVANCED MEDICAL-SURGICAL NURSING PROCESS 10 UNITS
108 Lab Hours
Prerequisite: Satisfactory completion of NURSE 270 and NURSE 271.

Provides the student enrolled in the ADN program an opportunity to obtain nursing experience in a structured work/study community service program in participating clinical agencies. Students gain additional practice in nursing by applying previously learned knowledge and skills. Orientation: 1 hour arranged. 75 hours compensated related work experience per semester equals 1 unit or 60 hours uncompensated related work experience. Field trips are not required. (P/NP Only). Not repeatable.

NURWE 362—WORK EXPERIENCE-NURSING B 2 UNITS
108 Lab Hours
Formerly listed as: NURWE - 362: Work Experience-Nursing

Prerequisite: Satisfactory completion of NURSE 270 and NURSE 271.

Provides the student enrolled in the ADN program an opportunity to obtain additional nursing experience in a structured clinical work/study community service program in a participating clinical agency. Students gain additional practice in nursing by applying previously learned knowledge and skills. Orientation: 1 hour arranged. 150 hours compensated related work experience per semester equals 2 units or 120 hours uncompensated related work experience per semester equals 2 units. Field trips are not required. (P/NP Only) Not repeatable.

OFADM (OFFICE ADMINISTRATION)

OFADM 202—INTERMEDIATE KEYBOARDING 2 2 UNITS
36 Lecture Hours
Formerly listed as: OFADM 202: Intermediate Keyboarding

Recommended for success: Before enrolling in this course, students are strongly advised to complete at least one semester of keyboarding and type a minimum of 45 gross words per minute on a five-minute timing.

First two modules of OFADM 203. Further development of keyboarding with an emphasis on speed and accuracy; practice and drill on production keyboarding; drill and practice on formatting techniques and procedures for setting up business letters, academic and business reports, formal reports and all components, tables, business forms, including interoffice memoranda, resumes, minutes, and agendas. Individualized instruction. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)
OFADM 203——INTERMEDIATE KEYBOARDING 3
36 Lec Hours
Formerly listed as: OFADM 203: Intermediate Keyboarding
Recommended for Success: Before enrolling in this course, students are strongly advised to complete at least one semester of keyboarding and type a minimum of 45 gross words per minute on a five-minute timing.

Further development of keyboarding with an emphasis on speed and accuracy; practice and drill on production keyboarding; drill and practice on formatting techniques and procedures for setting up business letters, academic and business reports, formal reports and all components, tables, business forms, including interoffice memoranda, resumes, minutes, and agendas. Also, the design and creation of effective office forms and publications, such as letterheads, notepads, cover pages, announcements, flyers, and newsletters. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 231——INTERMEDIATE WORD PROCESSING 3
36 Lec Hours, 54 Lab Hours
Also offered as: CSCI 224 (CMPSC 231): Intermediate Word Processing
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 256 and/or satisfactorily complete OFADM 330.

Intermediate word processing features such as mail merge, styles, graphics, tab, and sorts. Features will be applied in creating business documents. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

OFADM 232——ADVANCED WORD PROCESSING AND DESKTOP PUBLISHING 3
36 Lec Hours, 54 Lab Hours
Formerly listed as: OFADM 232: Advanced Word Processing and Desktop
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 231 or have strong prior knowledge of word processing software.

Application of advanced word processing techniques and procedures including those features relating to desktop publishing. For students who are already knowledgeable in word processing software. Typically offered in only the fall semester. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

OFADM 256——INTRODUCTION TO WORD PROCESSING 1
1 U
Formerly listed as: OFADM - 356: Introduction to Word Processing
9 Lec Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 301 and/or have the ability to keyboard by touch.

Beginning course in the use of word processing software. Features of the software will be explained and demonstrated in a hands-on learning environment. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 259——INTRODUCTION TO SPREADSHEET SOFTWARE 1
1 U
Formerly listed as: OFADM 359: Introduction to Spreadsheet Software
9 Lec Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 353.

Beginning course in the use of spreadsheet software. Features of software will be explained and demonstrated in a hands-on learning environment. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 260——INTERMEDIATE SPREADSHEET SOFTWARE 1
1 U
9 Lec Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 333 and satisfactorily complete OFADM 259.

Intermediate course in the use of spreadsheet software. Features of the software will be explained and demonstrated in a hands-on learning environment. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 261——INTRODUCTION TO DATABASES 1
1 U
9 Lec Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 353 and satisfactorily complete OFADM 256 and/or satisfactorily complete OFADM 259.

A beginning course using features of database software. Course is designed to enable students to learn and apply the features of database software to organize information and to work with stored information. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 262——INTRODUCTION TO BUSINESS PRESENTATION SOFTWARE 1
1 U
9 Lec Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to demonstrate basic knowledge of computer use and have the ability to keyboard by touch.

A beginning course using computer software to design slides, outlines, note pages, and audience handouts for business presentations. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU)

OFADM 301——BEGINNING KEYBOARDING 1.5
1.5 U
9 Lec Hours, 54 Lab Hours
Development of basic alpha/numeric keyboarding skills needed for the keyboard by touch. Drills to develop speed and accuracy on straight copy. Designed for students with no previous keyboarding/typing experience. Field trips are not required. Not repeatable. (A-F Only)

OFADM 302——BEGINNING DOCUMENT PROCESSING 1.5
1.5 U
9 Lec Hours, 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 301 or have ability to keyboard and type a minimum of 35 gross words per minute on a three-minute timing.

Further development of speed and accuracy on the alpha/numeric keyboard. Instruction in opening, saving, naming, printing documents; deletion and addition of text; margin/ tab settings; spacing techniques; text editing techniques; vertical/horizontal centering; basic business letter, memo, and report formats. Field trips are not required. Not repeatable. (A-F Only)
COURSES

OFADM 303—KEYBOARDING FOR SPEED AND ACCURACY 0.5 UNITS
27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 301 or possess the ability to keyboard by touch at 20 gross words per minute.
Keyboarding course designed to diagnose a student’s current keyboarding skills needs, prescribe appropriate practice materials, measure skill development, improve speed and accuracy, and continually evaluate the skill building process. Field trips are not required. Not repeatable. (A-F Only)

OFADM 304—PROFESSIONAL ENGLISH FOR BUSINESS 3 UNITS
54 Lecture Hours
Review of the mechanics of correct English usage as applied in the business environment. Emphasis is on sentence structure, word usage, punctuation, spelling, business vocabulary, dictionary usage, grammar review, and proofreading. Heavy emphasis is placed on the use of various business documents throughout the course for students to apply their writing skills. Field trips are not required. Not repeatable. (A-F or P/NP) (CC: OFTEC 130)

OFADM 305—RECORDS MANAGEMENT 3 UNITS
45 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 353 and have ENGL 50 eligibility.
Filing rules and their application to alphabetic, numeric, geographic, and subject systems; establishing manual and computer filing systems; records control, retention, Transfer, equipment, and supplies; micrographics; using the computer to store, organize, maintain, and retrieve information. Field trips might be required. (A-F or P/NP) Not repeatable.

OFADM 306—KEYBOARDING FOR ACCURACY 0.5 UNITS
27 Lab Hours
Prerequisite: Satisfactory completion of OFADM 303.
Keyboarding course designed to develop a student’s current keyboarding skill, prescribe appropriate practice materials, measure skill development, improve accuracy, and continually evaluate the skill building process. Field trips are not required. (A-F Only) Not repeatable.

OFADM 307—KEYBOARDING FOR SPEED 0.5 UNITS
27 Lab Hours
Prerequisite: Satisfactory completion of OFADM 303.
Keyboarding course designed to develop a student’s current keyboarding skill, prescribe appropriate practice materials, measure skill development, improve speed, and continually evaluate the skill building process. Field trips are not required. (A-F Only) Not repeatable.

OFADM 313—SKILLS FOR THE WORKPLACE 3 UNITS
54 Lecture Hours
Formerly listed as: OFADM 313: Office Skills
A study of various employee characteristics required in the workplace. Emphasis on entry-level skills and experiences necessary for employees, including education and career planning, telephone, time and stress management, and job search. Recommended as a first semester course for students pursuing an Office Administration or Clerical certificate or degree. Field trips might be required. Not repeatable. (A-F or P/NP)

OFADM 314—OFFICE PROCEDURES & TECHNOLOGIES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 202 and satisfactorily complete OFADM 262 and satisfactorily complete OFADM 231 or have prior knowledge of word processing software.
Study of attributes and skills needed to work in an office. Explores duties of administrative assistants. Topics include workplace environment, workforce behaviors, telecommunications, reprographics, oral and written communications, record keeping, and web-based applications. (Course offered during fall semester only.) Field trips might be required. Not repeatable. (A-F or P/NP) (CC: OFTEC 131)

OFADM 315—TODAY’S OFFICE 2 UNITS
108 Lab Hours
Prerequisite: Satisfactory completion of OFADM 202 and OFADM 314.
Provides a simulated office environment to give students the experience that is often necessary in obtaining and keeping an office position. Students will be “hired” as an employee within the simulated office with the availability of transferring to other positions later in the course. Emphasis on application of skills and knowledge necessary to be an effective employee. Upon mastery of necessary skills, students may be placed as interns in offices to gain additional experience. The course should be taken in the student’s last semester before graduation or certificate completion. (Course offered during spring semester only.) Field trips might be required. Not repeatable. (A-F Only)

OFADM 316—INTRODUCTION TO MICROSOFT OUTLOOK 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to be familiar with the use of computer technology.
Use of Microsoft Outlook functions to manage e-mail, contacts, calendar, and tasks. Both personal and business use of the software will be covered. Field trips are not required. Not repeatable. (A-F or P/NP)

OFADM 320—TELEPHONE TECHNIQUES 1 UNIT
18 Lecture Hours
Development of effective use of the telephone. Scenarios include appropriate greetings, placing callers on hold, dealing with difficult callers, and communication on the telephone. Telephone equipment and services are also covered. Field trips are not required. Not repeatable. (A-F or P/NP)

OFADM 330—BEGINNING WORD PROCESSING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Introduction to the use and capabilities of word processing software with hands-on experience in creating, revising, and printing documents. Course designed for initial exposure to word processing. Students who have completed OFADM 256 should enroll in OFADM 231. Field trips are not required. Not repeatable. (A-F or P/NP)
OFADM 353—INTRODUCTION TO COMPUTERS AND WINDOWS 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have the ability to keyboard by touch.
Basic introduction to computers and the Windows operating environment. Explains components of a computer system and provides hands-on training using a personal computer. Intended for students new to using personal computers and the Windows environment. Field trips are not required. Not repeatable. (A-F Only)

OFADM 363—UNDERSTANDING THE INTERNET 1 UNIT
9 Lecture Hours, 27 Lab Hours
Fundamentals of using the Internet. Topics included in the course: Internet terminology, use of browsers, search engines and sites, downloading of files, and e-mail. Field trips are not required. Not repeatable. (A-F Only)

OFADM 364—GRAMMAR IN THE OFFICE 1 UNIT
18 Lecture Hours
Basic English grammar for office employees. Emphasis on parts of speech, subject and verb agreement, pronoun usage, sentences, punctuation, number usage, and business terms. Field trips are not required. Not repeatable. (A-F Only)

OFADM 366—PROOFREADING TECHNIQUES 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have successfully completed OFADM 304.
Self-paced course addressing the skills needed to identify mechanical and content errors in handwritten or printed text by using proofreader’s marks. Grammar, punctuation, and spelling rules will be reviewed. Field trips are not required. (A-F Only)

OFADM 375—10-K KEY ON THE COMPUTER 1 UNIT
9 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 301 or have the ability to keyboard by touch.
Touch system of numeric keys on the 10-key pad. Field trips are not required. Not repeatable. (A-F Only)

OFADM 376—ADVANCED COMPUTING 1 UNIT
18 Lecture Hours, 27 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete OFADM 301 or have the ability to keyboard by touch.
Introduction to advanced computer topics. Field trips are not required. Not repeatable. (A-F Only)

PE, PEA, PEC, PEM, PEVM, PEVW, PEW (PHYSICAL EDUCATION)
Note: For Dance Courses See: DANCE

The Physical Education program at MJC offers a balanced approach based upon the individual interests and needs of the student. In addition to a wide spectrum of physical education activity classes, MJC offers intercollegiate competition in many sports and adaptive physical education courses. Theory classes are offered in basketball, football, track and field, wrestling, softball, and baseball. Since the majority of career opportunities in Physical Education exist for students completing a bachelor's degree, General Education and Transfer courses are carefully planned so that students are well prepared for individual career needs and upper division college work.
Courses should be selected with the assistance of a Physical Education faculty advisor. Students interested in a career in Physical Education are encouraged to take a variety of activity classes each semester, thereby broadening their activity skills before Transfer.

ACTIVITIES REQUIREMENT FOR DEGREE
Physical Education classes used to fulfill the graduation activities requirement must be from the PEA, PEC, PEM, PEW, PEVM, or PEVW class listings.

PE (PHYSICAL EDUCATION)

PE 100—INTRODUCTION TO PHYSICAL EDUCATION 3 UNITS
54 Lecture Hours
History, philosophy, and principles of Physical Education. Study of the aims and objectives of modern physical education with emphasis on the development of basic philosophy and background for the profession of physical education. (A-F Only) Not repeatable. Transfer: (CSU, UC)

PE 101—BASKETBALL THEORY 2 UNITS
18 Lecture Hours, 54 Lab Hours
Basketball rules, mastery of position and team play. Development of strategies and philosophy. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU, UC)

PE 102—OFFENSIVE FOOTBALL THEORY 2 UNITS
18 Lecture Hours, 54 Lab Hours
An analysis of offensive position and team play. Critical analysis of offensive techniques, rules, physical and mental training procedures, and film evaluation. (A-F or P/NP) Lecture/Not repeatable. Not repeatable. Transfer: (CSU, UC)

PE 103—TRACK AND FIELD TEAM CONCEPTS 2 UNITS
18 Lecture Hours, 54 Lab Hours
Specialized approach to track and field. Rules, training procedures, strategy, and performance evaluation. (A-F or P/NP) Field trips are not required. Not repeatable. Transfer: (CSU, UC)

PE 104—WRESTLING THEORY 1 UNIT
9 Lecture Hours, 27 Lab Hours
Analysis of wrestling; rule interpretation, winning psychology, film analysis. Repeatable up to 2 units maximum. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 105—DEFENSIVE FOOTBALL THEORY 2 UNITS
18 Lecture Hours, 54 Lab Hours
An analysis of defensive position and team play. Critical analysis of defensive techniques, rules, physical and mental training, and film evaluation. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)
COURSES

PE 106—OFFENSIVE BASEBALL THEORY  2 UNITS
18 Lecture Hours, 54 Lab Hours
An analysis of offensive techniques, position and team play. Coverage of rules and training procedures. (A-F or P/NP) Field trips might be required. Not repeatable. Transfer: (CSU, UC)

PE 107—DEFENSIVE BASEBALL THEORY  2 UNITS
18 Lecture Hours, 54 Lab Hours
An analysis of defensive techniques, position and team play. Coverage of rules and training procedures. (A-F or P/NP) Field trips might be required. Not repeatable. Transfer: (CSU, UC)

PE 108—CARE AND PREVENTION OF ATHLETIC INJURIES  3 UNITS
54 Lecture Hours
Aid in the recognition, evaluation, and care of athletic injuries. Techniques in taping, prevention, and rehabilitation of injuries. Sport specific injuries are examined and discussed to familiarize students with the multitude of injuries that can and will occur in sporting activities. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 109—EXERCISE AND SPORT PSYCHOLOGY  3 UNITS
54 Lecture Hours
Formerly listed as: PE - 109: Peak Performance Through Mental Training
Techniques for maximizing sport performance and participation through the development of psychological skills training, strategies for arousal management, examining group processes, and enhancing health and wellness. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC)

PE 110—OFFICIATING: SPRING SPORTS  3 UNITS
54 Lecture Hours
Regulations and techniques of officiating baseball and softball. (A-F or P/NP) Field trips are not required. Not repeatable. Transfer: (CSU, UC)

PE 111—APPLICATION OF SPORTS MEDICINE  3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of PE 108.
Practical application of modalities and techniques used in the treatment and care of athletic injuries for the prospective Athletic Trainer. Emphasis on injury recognition, development of conditioning and reconditioning programs and taping techniques to enable athletes to return to competitive activities. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 113—OFFENSIVE/DEFENSIVE SOFTBALL THEORY  2 UNITS
18 Lecture Hours, 54 Lab Hours
Analysis of offensive and defensive techniques, strategies, positions, and team play including rules and physical and mental training. Course designed to prepare the student to compete in collegiate softball. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 114—CROSS COUNTRY CONCEPTS  2 UNITS
18 Lecture Hours, 54 Lab Hours
Specialized approach to cross country and long distance running. Training procedures, performance evaluation, nutritional strength, and racing strategy components. (A-F or P/NP) Field trips are not required. Not repeatable. Transfer: (CSU, UC)

PE 115—OFFICIATING: FALL SPORTS  3 UNITS
54 Lecture Hours
Regulations and techniques of officiating football and basketball. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 116—FOOTBALL TEAM PLAY CONCEPTS  2 UNITS
18 Lecture Hours, 54 Lab Hours
Essential concepts of team-building in football. Goal-setting and development of individual roles. Exploration of team communication processes and activation of leadership of the successful football team. Provides both the participant and the future mentor specialized exposure for an in-depth survey of team building in regard to the sport of football. Field trips might be required. (A-F or P/NP) (Fall) Not repeatable. Transfer: (CSU, UC)

PE 118—SPECIAL TEAMS FOOTBALL THEORY  2 UNITS
18 Lecture Hours, 54 Lab Hours
An analysis of kick and return play in college level football. Critical analysis and practical application of physical training procedures, techniques of play and rules. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU, UC)

PE 120—SPORTS AND SOCIETY  3 UNITS
54 Lecture Hours
Examine sports as a significant aspect of modern culture and a major institution of modern society. Among the topics that will be analyzed include: gender and sports, the relationship between organized sports and aggression, sports as an economy, and the issues of social class and race in sports. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC HHP 63)

PE 121—COACHING EFFECTIVENESS  3 UNITS
54 Lecture Hours
Role of coach in athletics, ethics, leadership and management principles, psycho-social aspects of athlete behavior management, motor learning, physiological systems and physical training theory. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC)

PE 122—ADAPTED PHYSICAL EDUCATION THEORY AND LAB  3 UNITS
36 Lecture Hours, 54 Lab Hours
Common definitions, scope and basic concepts of Adapted Physical Education. A study of specific disabilities, with a primary focus on identification, etiology and implications for physical education. Course includes practical experience in the field. Intended for students interested in pursuing a career in physical therapy, nursing, adapted physical education, gerontology or fields requiring one to work with individuals with disabilities. Not repeatable. (A-F Only) Transfer: (CSU, UC)
PE 124—INTRODUCTION TO KINESIOLOGY 3 UNITS
54 Lecture Hours
Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in Kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC HHIP 3) (C-ID: KIN 100) General Education: (MUC-GE: A)

PE 126—INTRODUCTION TO SPORT MANAGEMENT 3 UNITS
54 Lecture Hours
Introduction to the philosophy, organization, issues and career paths of sport management. Study will include career opportunities in sport enterprises, agencies and facilities, basic management functions, scope of sport managers’ responsibilities and a survey of relevant literature. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU)

PE 130—PERSONAL TRAINER HEALTH FITNESS INSTRUCTOR 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 195 or satisfactorily complete PEC 197 or satisfactorily complete PEW 192.

Basic competency in designing and implementing fitness programs for a healthy population. Features both practical and theoretical instruction as well as career advice. Emphasis on safe, effective and efficient methods of teaching cardiovascular training, resistance training, balance training and flexibility training for individuals or groups. Covers a broad range of exercise physiology, exercise program design, anatomy of major muscle groups, interval and circuit training, exercise biomechanics, advanced lifting techniques, the basics of working with special populations, and exercise progression. (A-F or P/NP) Not repeatable. Transfer: (CSU)

PE 141—SUPERVISION IN ATHLETIC TRAINING 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PE 108
Policies, procedures, and daily functions that are necessary for the student to work in the Athletic Treatment Center. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

PE 142—SUPERVISION IN ATHLETIC TRAINING 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PE 141.
Second semester course on policies and procedures, emergency protocols, and daily functions of the Athletic Treatment Center. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

PE 143—SUPERVISION IN ATHLETIC TRAINING 3 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PE 142.
Third semester course on policies and procedures, emergency protocols, and daily function necessary for the student to work in the Athletic Treatment Center and to cover college athletic events. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

PE 144—SUPERVISION IN ATHLETIC TRAINING 4 2 UNITS
18 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PE 143.
Fourth semester course on policies and procedures, emergency protocols, and daily functions of the Athletic Treatment Center Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

PEA 104—ADAPTED STRENGTH DEVELOPMENT 1 UNIT
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of disability and recommendation of medical specialist.

Development and maintenance of muscular strength for students with physical/medical limitations. Emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEA 106—FUNCTIONAL WATER EXERCISE 1 UNIT
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or learning disability or motor problems.

A specialized course involving aquatic exercises which include range of motion, strength, cardiovascular endurance, and flexibility training. Specialized adapted equipment appropriate for limited mobility conditions may be used. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEA 107—ADAPTED SWIMMING 1 UNIT
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or learning disability or motor problems.

Basic water safety and swim skills. A specialized course in physical exercise which includes; personalized and group swim exercises which include strength, endurance, flexibility training and instruction in improving and/or modifying swimming skills. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEA 108—ADAPTED AQUATICS 1 UNIT
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or learning disability or motor problems.

A specialized course in aquatic exercise which includes personalized and group exercises for strength, endurance, and flexibility. Specialized adapted equipment appropriate for limited mobility conditions may be used. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)
**PEA 116—ADAPTED RUN/WALK**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or learning disability. 
Personalized and group exercises that include development of an overall fitness routine involving conditioning for walking and/or running: balance, gait, functional motor control, developmental movement, strength and endurance. Emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

**PEA 119—ADAPTED SPORTS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or developmental disability. 
Introduces students with physical and/or developmental disabilities to a variety of sports. Students will safely participate in sports such as, but not limited to, softball, volleyball, tennis, frisbee, soccer, basketball, and golf. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

**PEA 141—ADAPTED FITNESS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of disability and recommendation of medical specialist. 
A specialized course in physical exercise which includes individual and group exercises that include development of an overall fitness routine involving all aspects of body conditioning: balance, flexibility, functional motor control, developmental movement, strength and endurance. There will be an emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

**PEA 800—ADAPTIVE EXERCISE FOR MATURE ADULTS**  
0 UNITS  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to seek physician(s)’ recommendations on exercise limitations and advisories. 
Exercise course for students with disability limitations. Course will introduce and utilize sports and sports skills and/or the adapted weight room for body maintenance, strengthening and conditioning. Unlimited repeats. Field trips are not required. (Non-Graded course)

**PEC (PHYSICAL EDUCATION: COED ACTIVITIES)**

**PEC 102—WATER AEROBICS**  
1 UNIT  
54 Lab Hours  
Cardiovascular fitness; strength improvement and increased range of motion, and flexibility through low-impact water aerobics. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

**PEC 107—AQUA JOGGING**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to demonstrate basic swimming and/or water safety skills. 
A course in deep water running utilizing specialized equipment that closely mimics actual running movement. Provides neuromuscular workout that, in addition to aerobic benefits, helps keep specific muscles active. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

**PEC 108—DEEP WATER AEROBICS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to demonstrate basic swimming and/or water safety skills. 
A course in aquatic exercise which includes group exercises utilizing strength, endurance, and flexibility training in deep water which can involve specialized aquatic equipment. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

**PEC 115—WALKING/JOGGING FOR IMPROVED FITNESS**  
1 UNIT  
54 Lab Hours  
Instruction in the principles of fitness through a walking/jogging program that consists of cardiovascular activity progression. Designed to build and/or improve cardiorespiratory endurance and overall fitness levels. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

**PEC 119—DANCE AEROBICS**  
1 UNIT  
54 Lab Hours  
Aerobic movements used in basic dance (e.g., hip hop, zumba) rhythmic activities, and exercise conditioning. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

**PEC 128—AEROBICS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to be able to move and breathe with reasonable ease and with limited risk for incurring injury. 
Aerobic movements for improved cardiovascular condition, muscle strength and endurance, flexibility, balance, agility, coordination, and weight control. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)
<table>
<thead>
<tr>
<th>COURSES</th>
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<tbody>
<tr>
<td><strong>PEC 131—AEROBICS 2</strong> 1 UNIT</td>
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<tr>
<td>54 Lab Hours</td>
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<tr>
<td>Intermediate aerobic movements with improved cardiovascular condition, muscle strength and endurance. Greater use of flexibility, balance and agility during aerobic routines. Field trips are not required. (A-F or P/NP) Not repeatable. <strong>Transfer:</strong> (CSU, UC) <strong>Local Requirement:</strong> (Activities)</td>
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| **PEC 135—SPRINGBOARD DIVING** 1 UNIT  |
| 54 Lab Hours  |
| Springboard diving course for students of all ability levels. Workouts will include stretching, strength development, flexibility and coordination exercises, techniques of the approach, hurdle, press, takeoff, flight and entry. Mid-air maneuvers will be identified and practiced on one meter and three meter diving boards as skill levels increase. Basic water safety and related safety issues will be included. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 140—EXERCISE FOR FITNESS** 1 UNIT  |
| 54 Lab Hours  |
| Cardiovascular improvement and respiratory efficiency through a variety of physical activities consisting of continuous motion exercises. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 142—EXERCISE FOR FITNESS 2** 1 UNIT  |
| 54 Lab Hours  |
| Cardiovascular improvement and respiratory efficiency through a variety of high level physical activities and sports skills. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 143—BEGINNING GOLF** 1 UNIT  |
| 54 Lab Hours  |
| Fundamentals of golf. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 144—INTERMEDIATE GOLF** 1 UNIT  |
| 54 Lab Hours  |
| Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 143 or demonstrate basic knowledge and skills of the game.  
Further application of the fundamentals and rules of golf for the improvement of game skills and knowledge. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 145—ADVANCED GOLF** 1 UNIT  |
| 54 Lab Hours  |
| Formerly listed as: PEC 145A: Advanced Golf  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 144.  
Acquisition and development of advanced golf skills and strategies for tournament play. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 147—GYMNASTICS** 1 UNIT  |
| 54 Lab Hours  |
| Formerly Listed as: PEC 147A: Gymnastics  
Tumbling, floor exercise, stunts, and acrobatic skills are taught and practiced in progression and combined for skill development. Field trips are not required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 148—YOGA FOR BETTER HEALTH** 1 UNIT  |
| 54 Lab Hours  |
| Fitness class using Yoga postures, breathing, and relaxation techniques to increase flexibility and strength, balance and coordination. Appropriate for all ages and learning abilities. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 157—ADVANCED JUDO** 1 UNIT  |
| 54 Lab Hours  |
| Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 156 or PEC 160 or PEW 167 or demonstrate basic Judo skills and competencies, along with a knowledge and understanding of Judo concepts, terminology, etiquette, and methods of scoring, timekeeping, and elimination systems. Intermediate and advanced skills (standing, mat and falling techniques) and strategies to improve Judo techniques and enhance competitiveness. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 159—FALL SPIRIT LEADERSHIP TRAINING** 2 UNITS  |
| 108 Lab Hours  |
| Formerly listed as: PEC 159A: Spirit Leadership Training  
Instruction, training, and development of a corps of spirit leaders to promote enthusiasm for school athletic activities. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 160—SPRING SPIRIT LEADERSHIP TRAINING** 1 UNIT  |
| 54 Lab Hours  |
| Instruction, training and development of a corps of spirit leaders for school athletic activities for Spring sports. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 162—AIKIDO** 1 UNIT  |
| 54 Lab Hours  |
| An introduction to the philosophy, principles and fundamental techniques of Aikido, a Martial Art employing ancient self-defense techniques from Jujutsu, Samurai Sword Combat and other Martial Arts. Students learn to use an attacker’s aggression to redirect his energy, take his balance and effortlessly take him to the ground. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities) |

| **PEC 163—AIKIDO 2 INTERMEDIATE** 1 UNIT  |
| 54 Lab Hours  |
| Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 162 or hold Kyu rank from an Aikido Dojo. |
A continuing exploration of the fundamental principles and techniques of Aikido, an ethical Japanese martial art based on non-aggressive, non-resistant, co-creative conflict resolution and internal personal growth by non-competitive means. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 164—SELF DEFENSE**  
1 UNIT  
54 Lab Hours  
A practical course in self defense. Practice of various basic techniques and principles of balance, leverage, and momentum. Discussion of how to avoid threatening situations in the home or on the street. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 165—BEGINNING JUDO**  
1 UNIT  
54 Lab Hours  
Formerly listed as: PEC 165: Judo  
Judo is a challenging martial art based on the philosophy of using maximum efficiency and maximum effort. This course is designed to teach the fundamental skills and techniques to the student as a recreational activity and/or on a competitive basis. Field trips might be required. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 166XA—INTERMEDIATE JUDO**  
0.5-1 UNITS  
X=4.38 Lecture Hours, 13.12 Lab Hours, A= 9 Lecture Hours, 27 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 165.  
Instruction and practice in the intermediate skills of the sport of Judo. Course will cover the terminology, etiquette along with throwing and grappling techniques, with integration of various Katas (forms) and Randori (free exercise). (A-F or P/NP) Lecture/ Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 166B—BEGINNING SWIMMING**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to have the ability to enter shallow water.  
Basic skills of floating, breathing, kicking, pulling, using arms and legs to improve swimming skills. Field trips are not required. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 166C—INTERMEDIATE SWIMMING**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Satisfactory completion of PEC 168.  
Continued development in basic stroke techniques and endurance for intermediate swimming. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 167—ADVANCED SWIMMING**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to demonstrate basic swimming skills.  
Continued development in stroke techniques, and workout knowledge for advanced swimming. Not repeatable. Field trips are not required. (A-F or P/NP) **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 171—SWIM FOR FITNESS**  
1 UNIT  
54 Lab Hours  
Limitations on Enrollment: Enrollment limited to students who can swim in deep water.  
Basic strokes and endurance swimming for intermediate and/or advanced swimmers. (A-F or P/NP - Student choice) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 172—LIFEGUARD TRAINING**  
1 UNIT  
54 Lab Hours  
Limitations on Enrollment: Enrollment limited to students who are able to pass a swimming test and carry a 10-pound brick while in the water, and who are at least 15 years of age on the first day of the class.  
Preventive lifeguarding, learning how to recognize specific characteristic behaviors of patrons at an aquatic facility; facility emergency planning; First Aid and CPR for the Professional Rescuer included. Successful course completion results in American Red Cross certification in lifeguard training, CPR and first aid. (A-F or P/NP). Materials fee required. Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 175—BEGINNING TENNIS**  
1 UNIT  
54 Lab Hours  
Fundamental skills in tennis. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 176—INTERMEDIATE TENNIS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 175.  
Development of net and back-court skills and strategies, net play, volleying, overheads and proficiency in rules, terminology, and etiquette. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 177—ADVANCED TENNIS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 176.  
Skills and strategies of competitive tennis, including tournaments and ladder play. (A-F or P/NP) Not repeatable. **Transfer:** (CSU, UC) **Local Requirement:** (Activities)

**PEC 178—TOURNAMENT TENNIS**  
1 UNIT  
54 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 177.  
This course is designed for the experienced tennis player; includes in-class competition. Not repeatable. (A-F or P/NP) **Transfer:** (CSU, UC) **Local Requirement:** (Activities)
PEC 179—TRACK AND FIELD
54 Lab Hours
Generalized training and techniques for track and field. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 182—TRAINING FOR DISTANCE RUNNING
54 Lab Hours
Endurance distance running with organized training runs. Creating an effective training program, nutrition, weight training and cross training. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 183—VOLLEYBALL
54 Lab Hours
Fundamentals of volleyball. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 184—POWER VOLLEYBALL
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 183.
Power volleyball for team play. Advanced offensive and defensive strategy and game skills. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 186—INTERMEDIATE VOLLEYBALL
54 Lab Hours
Intermediate volleyball skills, theories, offensive, and defensive strategy. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 187—PILOATES FOR FITNESS
54 Lab Hours
A fitness class that utilizes the Pilates exercise system focused on improving flexibility and strength for the total body through a series of controlled movements. Pilates exercises can improve posture, alignment, coordination and balance. Movements are designed to tone muscles without putting stress on the spine. For people of all ages and fitness levels. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 190—ADVANCED WATER POLO
54 Lab Hours
Advanced team play and game strategy in water polo. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 191—POWELIFTING
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 195 or satisfactorily complete PEW 192.
Advanced techniques of effective strength training in a supervised program with an emphasis on traditional powerlifting using free weight and supplemental exercise programs. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 192—PILOates 2
54 Lab Hours
A fitness class that utilizes intermediate Pilates exercises focused on improving flexibility and core strength. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 195—WEIGHT TRAINING
54 Lab Hours
Principles and procedures of effective strength training techniques in a supervised weight training program. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 197—ADVANCED WEIGHT TRAINING
54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 195.
Strength training in a supervised weight training environment with an emphasis on Olympic style weightlifting. Not repeatable. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEC (PHYSICAL EDUCATION: MEN’S ACTIVITIES)

PEC 108—BASEBALL
54 Lab Hours
Fundamentals and theory of collegiate baseball. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 112—BEGINNING BASKETBALL
54 Lab Hours
Basic skills, strategies, and rules of basketball. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 113—INTERMEDIATE BASKETBALL
54 Lab Hours
Intermediate skills and theory. Basic team play concepts. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEC 114—ADVANCED BASKETBALL
54 Lab Hours
Advanced skills, theory, and concepts of competitive basketball team play. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)
COURSES

PEM 140—TOUCH FOOTBALL AND KANAKI 1 UNIT
54 Lab Hours
Discussion and practical applications of rules and strategy, with emphasis on individual movements found in offensive and defensive touch football and kanaki. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEM 141XA—ADVANCED TOUCH FOOTBALL 0.5-1 UNIT
X= 27 Lab Hours, A= 54 Lab Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to have previously participated in high school and/or intercollegiate sports requiring strength, agility, and physical conditioning.
Conditioning, skills, rules and strategies with emphasis on the passing game to prepare for participation in advanced football. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEM 162—SOCCER 1 UNIT
54 Lab Hours
Practical application of basic offensive and defensive tactics; individual and team skills; strategy and rules review; scrimmages. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEM 163—SOCCER 2 1 UNIT
54 Lab Hours
Practical application of intermediate defensive and offensive tactics; individual and team skills, match strategy, and application of the rules. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)

PEM 165—SOCCER 3 1 UNIT
54 Lab Hours
Practical application of collegiate offensive and defensive tactics; individual and team skills, match strategy, and application of the rules. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEM 196—ADVANCED WRESTLING 1 UNIT
54 Lab Hours
Advanced wrestling and training methods, and the philosophy behind winning at advanced levels of competition. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM (PHYSICAL EDUCATION: VARSITY MEN'S ACTIVITIES)

Courses listed below offer advanced instruction and intensive training in sports fundamentals to develop teams for intercollegiate competition. A varsity activity may be taken a maximum of four times. Participation in intercollegiate sports requires concurrent enrollment in not less than 12 units of work, nine of which must be in courses counting toward the associate degree, remediation, Transfer and/or certification. Special medical examinations are required for students participating in competitive sports. Verification of insurance is also required. Participation in a second sport or a second year of a sport requires a 2.0 grade point average and 24 units passed.

PEV 100—VARSITY BASEBALL 3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate baseball. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEV 101XABC—TRAINING AND CONDITIONING FOR BASEBALL 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate baseball skills as determined by the coaching staff.
Prepares the collegiate baseball player mentally and physically for competitive play and reduces risk of injury. Includes collegiate level baseball skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEV 105—MEN'S VARSITY BASKETBALL (FALL) 2 UNITS
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate basketball (Fall semester) Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEV 106—MEN'S VARSITY BASKETBALL - SPRING 1 UNIT
54 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Continued instruction, training, and competition in intercollegiate basketball (Spring semester) Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEV 107XABC—TRAINING & CONDITIONING FOR BASKETBALL 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate basketball player mentally and physically for competitive play and reduces the risk of injury. Includes collegiate level basketball skill and strategy development, conditioning, sport specific strength training, agility work, speed training, flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)
PEVM 110 — MEN’S VARSITY CROSS COUNTRY  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate Cross Country. (Fall). Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 111XABC — TRAINING AND CONDITIONING FOR CROSS COUNTRY  0.5- 3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate cross country athlete mentally and physically for competitive play and reduce risk of injury. Includes collegiate level cross country skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team activities. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 115 — VARSITY FOOTBALL  3 UNITS
175 Lab Hours
Instruction, training, and competition in intercollegiate football. Four completions allowed. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 116XABC — TRAINING AND CONDITIONING FOR FOOTBALL  0.5- 3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate football player mentally and physically for competitive play and reduces risk of injury. Includes collegiate level football skill and strategy development, conditioning, sport specific strength training, agility work, speed training, flexibility exercises; as well as team play activities. Four completions allowed, Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 120 — MEN’S VARSITY GOLF  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate golf. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 122 — MEN’S VARSITY SOCCER  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Instruction, training, and competition in intercollegiate soccer. Four completions allowed. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 125 — MEN’S VARSITY SWIMMING AND DIVING  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate swimming and diving. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 130 — MEN’S VARSITY TENNIS  3 UNITS
162 Lab Hours
Instruction, training, and competition in intercollegiate tennis. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 131XABC — TRAINING AND CONDITIONING FOR TENNIS  0.5- 3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the tennis player mentally and physically for competitive play and reduces risk of injury. Includes collegiate level tennis skill and strategy development, conditioning, sport specific strength training, agility work, speed training, flexibility exercises; as well as team play activities. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 135 — MEN’S VARSITY TRACK AND FIELD  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate track and field events. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 136XABC — TRAINING AND CONDITIONING FOR TRACK AND FIELD  0.5- 3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Prepares the collegiate track and field athlete mentally and physically for competitive play and reduce risk of injury. Includes collegiate level track and field skill and strategy development, conditioning, sport specific strength training, agility work, speed training, flexibility exercises; as well as team play activities. Field trips might be required. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 140 — MEN’S VARSITY WATER POLO  3 UNITS
162 Lab Hours
Instruction, training, and competition in intercollegiate water polo. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)
COURSES

PEVM 141XABC—TRAINING AND CONDITIONING FOR WATER POLO 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate water polo player mentally and physically for competitive play and reduces risk of injury. Includes collegiate level water polo skills and strategy development, conditioning, sport specific strengths training, agility work, speed training, flexibility exercises; as well as team play activities. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 145—VARSITY WRESTLING 3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate wrestling. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 146XABC—TRAINING AND CONDITIONING FOR WRESTLING 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Prepares the collegiate wrestler mentally and physically for competitive play and reduced risk of injury. Includes collegiate level wrestling skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team activities. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVM 147XABC—TRAINING AND CONDITIONING FOR ATHLETICS 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Prepares the collegiate athlete physically and mentally for competitive play and reduced risk of injury. Includes collegiate level skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW (PHYSICAL EDUCATION: VARSITY WOMEN’S ACTIVITIES)

Courses listed below offer advanced instruction and intensive training in sports fundamentals to develop teams for intercollegiate competition. A varsity activity may be taken a maximum of four times. Participation in intercollegiate sports requires concurrent enrollment in not less than 12 units of work, nine of which must be in courses counting toward the associate degree, remediation, Transfer, and/or certification. Special medical examinations are required for students participating in competitive sports. Insurance is also required. Participation in a second sport or a second year of a sport requires a 2.0 grade point average and 24 units passed.

PEVW 100—WOMEN’S VARSITY BASKETBALL - FALL 2 UNITS
108 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate collegiate level basketball skills, as determined by the coaching staff.
Instruction, training, and competition in intercollegiate basketball. (Fall semester) Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 101—WOMEN’S VARSITY BASKETBALL - SPRING 1 UNIT
54 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Continued instruction, training, and competition in intercollegiate basketball. (Spring semester) Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 102XABC—TRAINING & CONDITIONING FOR BASKETBALL 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepare the collegiate basketball player mentally and physically for competitive play and reduces risk of injury. Includes collegiate level basketball skill and strategy development, conditioning, sport specific strength training, agility work, speed training, flexibility exercises; as well as team play activities. Four completions allowed, Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 103—WOMEN’S VARSITY CROSS COUNTRY 3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully complete a tryout.
Instruction, training, and competition in intercollegiate cross country running. Four completions allowed. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 104XABC—TRAINING AND CONDITIONING FOR CROSS COUNTRY 0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate cross country student-athlete mentally and physically for competitive play and reduce risk of injury. Includes collegiate level cross country skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)
COURSES

PEVW 115 — WOMEN’S VARSITY GOLF  3 UNITS
175 Lab Hours
Instruction, practice, and competition in intercollegiate golf. Four completions allowed. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 116XABC — TRAINING AND CONDITIONING FOR GOLF  0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours,
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate golf player mentally and physically for competitive play and reduce the risk of injury. Includes collegiate level golf skill and strategy development, conditioning, sport specific strength training, agility work and flexibility exercises; as well as team play activities. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 120 — WOMEN’S VARSITY SOFTBALL  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate softball. Four completions allowed. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 121XABC — TRAINING AND CONDITIONING FOR SOFTBALL  0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate softball player mentally and physically for competitive play and reduce risk of injury. Includes collegiate level softball skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 123 — WOMEN’S VARSITY SOCCER  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate soccer. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 124XABC — TRAINING AND CONDITIONING FOR SOCCER  0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate soccer skills as determined by the coaching staff.
Prepares the collegiate soccer player mentally and physically for competitive play and reduce risk of injury.
Includes collegiate level soccer skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 125 — WOMEN’S VARSITY SWIMMING AND DIVING  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and intercollegiate competition in swimming and diving. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 130 — WOMEN’S VARSITY TENNIS  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate tennis. Four completions allowed. (A-F Only) Field trips are not required. Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 135 — WOMEN’S VARSITY TRACK AND FIELD  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate track and field events. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 136XABC — TRAINING AND CONDITIONING FOR TRACK AND FIELD  0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate athletic skills as determined by the coaching staff.
Prepares the collegiate track and field athlete mentally and physically for competitive play and reduce risk of injury. Includes collegiate level track and field skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises. Four completions allowed, Field trips might be required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 140 — WOMEN’S VARSITY VOLLEYBALL  3 UNITS
162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who successfully pass a tryout.
Instruction, training, and competition in intercollegiate water polo. Four completions allowed. Field trips are not required. (A-F Only) Transfer: (CSU, UC) Local Requirement: (Activities)

PEVW 141XABC — TRAINING & CONDITIONING FOR VOLLEYBALL  0.5-3 UNITS
X= 27 Lab Hours, A= 54 Lab Hours, B= 108 Lab Hours, C= 162 Lab Hours
Limitations on Enrollment: Enrollment limited to students who demonstrate intercollegiate volleyball skills as determined by the coaching staff.
Prepares the collegiate volleyball player mentally and physically for competitive play and reduce risk of injury. Includes collegiate level volleyball skill and strategy development,
### COURSES

**PEW 145 — WOMEN’S VARSITY WATER POLO**  
162 Lab Hours  
**Limitations on Enrollment:** Enrollment limited to students who successfully pass a tryout.  
Instruction, training, and competition in intercollegiate water polo. Four completions allowed. Field trips are not required. (A-F Only)  
**Transfer:** (CSU, UC)  
**Local Requirement:** (Activities)

**PEW 147XABC — TRAINING & CONDITIONING FOR ATHLETICS** 0.5-3 UNITS  

**X = 27 Lab Hours, A = 54 Lab Hours, B = 108 Lab Hours, C = 162 Lab Hours**  
**Limitations on Enrollment:** Enrollment limited to students who successfully pass a tryout.  
Prepares the collegiate athlete physically and mentally for competitive play and reduced risk of injury. Includes collegiate level skill and strategy development, conditioning, sport specific strength training, agility work, speed training, and flexibility exercises; as well as team play activities. Four completions allowed. Field trips might be required. (A-F Only)  
**Transfer:** (CSU, UC)  
**Local Requirement:** (Activities)

### PEW (Physical Education: Women's Activities)

**PEW 163 — SOCCER 2** 1 UNIT  
54 Lab Hours  
Practical application of intermediate defensive and offensive tactics; individual and team skills, match strategy, and application of the rules. Field trips are not required. Not repeatable. (A-F Only)  
**Transfer:** (CSU, UC)  
**Local Requirement:** (Activities)

**PEW 164 — WOMEN’S INDOOR-OUTDOOR SOCCER** 1 UNIT  
54 Lab Hours  
Fundamentals of women’s indoor and outdoor soccer. Field trips are not required. (A-F or P/NP)  
**Transfer:** (CSU, UC)  
**Local Requirement:** (Activities)

**PEW 166 — WOMEN’S SELF DEFENSE** 1 UNIT  
54 Lab Hours  
**Formerly listed as:** PEW - 166A: Women’s Self Defense  
A practical course in women's self defense. Practice of basic techniques and principles of balance, leverage, and momentum. Discussion and practical exercises on how to avoid and handle threatening situations. Field trips are not required. Not repeatable. (A-F or P/NP)  
**Transfer:** (CSU, UC)  
**Local Requirement:** (Activities)

### PHILO (Philosophy)

**PHILO 101 — PHILOSOPHY** 3 UNITS  
54 Lecture Hours  
A careful and critical examination of some of the “Great Questions” philosophers have pursued from ancient times to the present concerning knowledge, reality, and values. Some of these include: What is human nature? What is real? Do we have free will? Does God exist? What can we know? How should we act? What is the source of evil? Also, what is the nature of truth? Field trips are not required. (A-F or P/NP)  
**Transfer:** (CSU, UC) (CC PHIL 1) (C-ID: PHIL 100)  
**General Education:** (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

**PHILO 103 — SYMBOLIC LOGIC** 3 UNITS  
54 Lecture Hours  
**Also offered as:** CSCI 203 (CMPS 103)  
An introduction to the principles of valid deductive reasoning, including both sentential and predicate logic. Field trips are not required. (A-F or P/NP)  
**Transfer:** (CSU, UC) (C-ID: PHIL 210)  
**General Education:** (MJC-GE: D2) (CSU-GE: A3)
PHILO 105 — CRITICAL REASONING AND ANALYTIC WRITING  3 UNITS

54 Lecture Hours

Formerly listed as: PHILO 105: Reasoning

Prerequisite: Satisfactory completion of ENGL 101.

This course is an introduction to critical thinking and critical writing. Students will learn techniques of practical reasoning and argumentation, with emphasis on application of these techniques in the writing of a sequence of argumentative essays. Topics include: critical reading, argument analysis, recognizing propaganda and stereotypes, clarifying ambiguity, meaning and definition, evaluating evidence, logical correctness vs factual correctness, and common mistakes in reasoning (formal and informal fallacies). The class emphasizes critical writing strategies. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: A3) (IGETC: 1B)

PHILO 107 — PHILOSOPHY OF SCIENCE  3 UNITS

54 Lecture Hours

Systematic study of the methods of scientific inquiry through the application of critical thinking through philosophical analysis of scientific methodology. Course will emphasize critical writing strategies and analytic writing. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: D2) (CSU-GE: A3) (IGETC: 1B)

PHILO 111 — ETHICS: THEORY AND APPLICATION  3 UNITS

54 Lecture Hours

Systematic study of reflective choice, standards of right and wrong by which it may be guided and attainable goods toward which it may be directed. Readings on representative ethical theories concerning morality and values including the concepts of good, duty, egoism, altruism, freedom, personal and social responsibility as well as applied ethics. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 113 — PHILOSOPHY OF ART  3 UNITS

54 Lecture Hours

An examination of the central features of art as well as alternative accounts of art and aesthetic experience including discussions of beauty, representation, and truth. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 115 — RELIGION: A PHILOSOPHICAL AND COMPARATIVE INQUIRY  3 UNITS

54 Lecture Hours

Introduction to the philosophical problems of religion and a comparative analysis of religious traditions and spiritual practices. Topics include the nature and existence of God, faith and reason, religious knowledge, language and experience in human life. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 120 — HISTORY OF PHILOSOPHY: ANCIENT  3 UNITS

54 Lecture Hours

Ancient philosophy with emphasis on the development of Greek philosophy from the Pre-Socratics through Aristotle. Course may also include later developments such as Hellenistic, Roman, and Christian philosophy or prominent eastern philosophies. Some of the topics include free will/determinism, the nature of existence, being, definition, and logic. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 121 — HISTORY OF PHILOSOPHY: MODERN  3 UNITS

54 Lecture Hours

Western ideas and philosophy from the 16th through 18th centuries with an emphasis on knowledge and reality in philosophical thought from Descartes to Kant as well as the rise of modern science. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 123 — TWENTIETH CENTURY PHILOSOPHY  3 UNITS

54 Lecture Hours

An examination of late nineteenth and twentieth century philosophy, including but not limited to representative thinkers of American Pragmatism, Continental Existentialism, Phenomenology, Critical Theory, and Postmodernism, and Anglo-American Analytic Philosophy. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 130 — POLITICAL PHILOSOPHY  3 UNITS

54 Lecture Hours

A study of social and political thought using classical and contemporary writings, with emphasis on current issues. Ideologies discussed include democracy, socialism, capitalism, communism, fascism, and anarchism. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: B, C) (CSU-GE: DB) (IGETC: 4H)

PHILO 135 — ENVIRONMENTAL ETHICS  3 UNITS

54 Lecture Hours

How ought we to relate to the rest of nature? What, if anything, is the value of wilderness and wild animals? Are we morally bound to use technology in an ecologically responsible manner? Course will address questions and issues such as these that arise when considering the relationship between human beings and the environment. Topics include animal rights, land use policy, sustainability, bioengineering, climate change, environmental justice. Theoretical approaches include deep ecology, anthropocentrism, ecofeminism, and pragmatism. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 140 — PHILOSOPHY AND FILM  3 UNITS

54 Lecture Hours

An introduction to philosophical problems and reasoning through an analysis of films. Topics discussed include philosophy of life and existence, political ideologies, the nature of aesthetic experience, and theories of film. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B)

PHILO 400 — MEDICAL AND BIOETHICS  3 UNITS

54 Lecture Hours

Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.

Explores the application of moral reasoning and ethical theories to issues and situations in medical settings. Special focus on the development of self-reflection, critical thinking
and the written and verbal communication of well-reasoned, reflective positions. Topics include: the Hippocratic tradition; virtues of healthcare professionals; paternalism vs. autonomy; informed consent and confidentiality; genetic and reproductive ethics; disability; hospice, death and dying, advance directives; impaired and seriously ill infants; medical error; medical futility and technology; quality and sanctity of life; just allocation of resources. This upper division course is a required course and limited to those in the Respiratory Care B.S. program. Completion of English 101 or the equivalent is recommended. Not repeatable. Field trips might be required. Not repeatable. (A-F or P/NP)

**PHSCl** *(PHYSICAL SCIENCE)*

**PHSCl S2—THE WAY THINGS WORK** 3 UNITS
54 Lecture Hours
Basic physical principles underlying common devices such as cameras, electrical systems, home appliances, and automobiles. General understanding of basic scientific and mechanical principles in order to analyze a wide range of other common devices. Field trips are not required. Not repeatable. (A-F or P/NP) General Education: (MJC-GE: A)

**PHSCl 180—CONCEPTUAL PHYSICAL SCIENCE: A HANDS-ON APPROACH** 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of MATH 29 or MATH 30 (formerly MATH 70) or qualification by the MJC assessment process.
A survey course of selected topics in physics and chemistry to include the scientific method and measurement; kinematics and dynamics of linear motion; work and energy; structure, classification and properties of matter; chemical change; thermal energy; wave theory; light and optics; electricity and magnetism. Physical theory is explained on a conceptual level with emphasis placed on applying physical principles to everyday phenomena. To include a weekly laboratory/activity session designed to provide students with practical experience in applying physical concepts. Designed for elementary education majors, but open to all students. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (C-ID: CHEM 140) (CID: PHYS 140) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS** *(PHYSICS)*

**PHYS 101—GENERAL PHYSICS: MECHANICS** 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of MATH 171 or qualification by the MJC assessment process and PHYS 165.
Introduction to calculus-based physics. A course in classical mechanics exploring measurement, kinematics of one and two dimensional motions; Newton’s laws of motion; circular motion; work and energy; linear and angular momentum; rotational kinematics and dynamics; statics and gravitation. PHYS 165 prerequisite may be met with proof of satisfactory completion of a high school physics course and completion of the petition process (Please visit the Science, Mathematics, and Engineering Division Office-SCC room 134-for the necessary form for this process). Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: PHYS 5B) (CID: PHYS 200S) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 102—GENERAL PHYSICS: WAVES, THERMODYNAMICS, & OPTICS** 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PHYS 101 and MATH 172 or qualification by the MJC assessment process.
Continuation of calculus-based physics: thermodynamics, wave motion, acoustics and optics. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: PHYS 205) (CC PHYS 5C) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 103—GENERAL PHYSICS: ELECTRICITY, MAGNETISM, & MODERN PHYSICS** 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of PHYS 101 and MATH 172 or qualification by the MJC assessment process.
Continuation of calculus-based physics: electricity, magnetism and modern physics. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: PHYS 5B) (CID: PHYS 205, PHYS 210) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 112—PROBLEM SOLVING SKILLS FOR PHYSICS 102** 1 UNIT
18 Lecture Hours
Corequisite: Concurrent enrollment in PHYS 102.
Designed to supplement Physics 102 in developing problem-solving skills, measuring and instrumentation techniques and applications of physical concepts and laws in a small group environment. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

**PHYS 113—PROBLEM SOLVING AND TECHNOLOGY FOR PHYSICS 103** 1 UNIT
18 Lecture Hours
Corequisite: Concurrent enrollment in PHYS 103.
Designed to supplement Physics 103 in developing problem-solving skills, measuring and instrumentation techniques and applications of physical concepts and laws in a small group environment. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

**PHYS 121—PROBLEM SOLVING AND TECHNOLOGY FOR PHYSICS 101** 1 UNIT
18 Lecture Hours
Corequisite: Concurrent enrollment in PHYS 101.
Designed to supplement Physics 101 in developing problem-solving skills, measuring and instrumentation techniques, and applications of physical concepts and laws in a small group environment. Field trips are not required. (P/NP Only) Transfer: (CSU, UC)

**PHYS 142—MECHANICS, HEAT, & WAVES** 4 UNITS
54 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of MATH 122 or qualification by the MJC assessment process.
Non-calculus introduction to principles and laws of mechanics, thermodynamics and waves. MATH 122 prerequisite may be met with proof of satisfactory completion of a high school algebra 2/trigonometry course and completion of the petition process (please see the science division office for the necessary form for this process). Field trips might be...
required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: PHYS 4A; PHYS 4B = PHYS 142 + PHYS 143) (C-ID: PHYS 100S, PHYS 105) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 143 — ELECTRICITY, MAGNETISM, OPTICS, ATOMIC AND NUCLEAR STRUCTURE**

4 UNITS

54 Lecture Hours, 54 Lab Hours

Prerequisite: Satisfactory completion of PHYS 142.

Continuation of PHYS 142, including electricity, magnetism, light and atomic structure. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CC: PHYS 4B) (C-ID: PHYS 100S, PHYS 110) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 152 — PROBLEM SOLVING SKILLS FOR PHYSICS 142**

1 UNIT

18 Lecture Hours

Corequisite: Concurrent enrollment in PHYS 142.

Designed to supplement Physics 142 in developing problem-solving skills, measuring and instrumentation techniques and applications of physical concepts and laws in a small group environment. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

**PHYS 153 — PROBLEM SOLVING AND TECHNOLOGY FOR PHYSICS 143**

1 UNIT

18 Lecture Hours

Corequisite: Concurrent enrollment in PHYS 143.

Designed to supplement Physics 143 in developing problem-solving skills, measuring and instrumentation techniques and applications of physical concepts and laws in a small group environment. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

**PHYS 160 — DESCRIPTIVE INTRODUCTION TO PHYSICS**

3 UNITS

54 Lecture Hours

Prerequisite: Satisfactory completion of MATH 89 or MATH 90 or qualification by the MJC assessment process.

A survey course of selected topics in physical inquiry to include mechanics, wave motion, thermodynamics, electromagnetism and modern physics. Physical theory is explored on a conceptual level with emphasis placed on applying physical principles to everyday phenomena. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC PHYSICS 1) General Education: (MJC-GE: A) (CSU-GE: B1) (IGETC: 5A)

**PHYS 165 — INTRODUCTORY PHYSICS**

4 UNITS

54 Lecture Hours, 54 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MATH 121 or be eligible for enrollment in MATH 171 as determined by the MJC assessment process.

Introduction to physics through the study of laboratory measurement in selected topic areas to include mechanics, wave motion, thermodynamics, electricity and magnetism. Develops the theoretical and experimental foundation for PHYS 101 and PHYS 142. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

**PHYS 166 — PROBLEM SOLVING SKILLS AND TECHNOLOGY FOR PHYSICS 165**

1 UNIT

18 Lecture Hours

Corequisite: Concurrent enrollment in PHYS 165.

Designed to supplement Physics 165 in developing problem-solving skills, measuring and instrumentation techniques and applications of physical concepts and laws in a small group environment. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU, UC)

**PHYS 180 — CONCEPTUAL PHYSICS: A HANDS-ON APPROACH**

4 UNITS

54 Lecture Hours, 54 Lab Hours

Prerequisite: Satisfactory completion of MATH 89 or MATH 90 or qualification by the MJC assessment process.

A survey course of selected topics in physical inquiry to include motion, waves, heat, energy, electricity, magnetism and modern physics. Physical theory is explored on a conceptual level with emphasis placed on applying physical principles to everyday phenomena. To include a weekly activity/laboratory session designed to provide students with practical experience in applying physical concepts. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B1, B3) (IGETC: 5A, 5C)

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**PHYSO (PHYSIOLOGY)**

**PHYSO 101 — INTRODUCTORY HUMAN PHYSIOLOGY**

4 UNITS

54 Lecture Hours, 54 Lab Hours

Prerequisite: Satisfactory completion of ANAT 125 and CHEM 143.

Study of physiological principles, function, and homeostasis of the human body in health and disease; at the biochemical, cellular, tissue, organ, and system levels: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive. Includes cellular communication, sensory reception, and neural and hormonal control: body movement, oxygen and nutrient delivery, immunity, fluid and electrolyte balance, metabolism and reproductive function. Intended primarily for Nursing, Allied Health, Kinesiology, and other health related majors. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) (CC: BIOL 60; BIOL 60 + BIOL 10 = PHYSO 101 + ANAT 125) (C-ID: BIOL 120B) General Education: (MJC-GE: A) (CSU-GE: B2, B3 IGETC: 5B, 5C)

**PHYSO 102 — PROBLEM SOLVING SKILLS FOR HUMAN PHYSIOLOGY**

1 UNIT

18 Lecture Hours

Corequisite: Concurrent enrollment in PHYSO 101.

Designed to supplement PHYSO 101 with problem solving, analysis of physiological principles, and homeostasis. Field trips might be required. Not repeatable. (P/NP Only) Transfer: (CSU)

**PHYSO 103 — INTRODUCTION TO NEUROSCIENCE**

3 UNITS

54 Lecture Hours

Also offered as: PSYCH 103

Prerequisite: Satisfactory completion of PSYCH 101.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: PSY 150) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: SB)

PLSC (PLANT SCIENCE)

PLSC 200—INTRODUCTION TO PLANT SCIENCE 3 UNITS
54 Lecture Hours
Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: SB)

PLSC 205—FIELD CROPS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Economic importance, adaptation, cultural practices, irrigation, integrated pest management, cost analysis, calendar of operations, and marketing in the production of field crops (including barley, oats, wheat, corn, grain sorghum, alfalfa, rice, dry beans, sugar beets, cotton, and seed crops). Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

PLSC 215—VEGETABLE CROPS 3 UNITS
36 Lecture Hours, 54 Lab Hours
Vegetable crops common to the area; economic importance, cultural sequence, fertilization, irrigation, cultivation, integrated pest control, harvest and related factors; marketing, cost analysis, risks; environmental relationships including moisture, temperature, soil and weather in the production of vegetable crops. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

PLSC 230—FRUIT SCIENCE 3 UNITS
36 Lecture Hours, 54 Lab Hours
Elementary culture of fruit and nut crops including growth and fruiting habits, varieties, characteristics and adaptations; environmental factors influencing local fruit production; pruning and training procedures on local fruit crops. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: A)

PLSC 235—PLANT PROPAGATION/PRODUCTION 3 UNITS
36 Lecture Hours, 54 Lab Hours
Also offered as: EHS 235

Formerly listed as: PLSC 235: Plant Propagation/ Production Planting & Varieties
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete EHS 210 or satisfactorily complete PLSC 200.

PLSC 241—VITICULTURE 3 UNITS
36 Lecture Hours, 54 Lab Hours
California grape production; study of table and wine grape varieties, uses, adaptations and products; production practices, propagation and planting; training, pruning and irrigation systems; identification and control of grape pests and diseases. Student is required to design a new vineyard and critique an existing operation. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU, UC)

PLSC 250—PLANT NUTRITION AND FERTILIZER 3 UNITS
36 Lecture Hours, 54 Lab Hours
An overview of plant nutrition principles in order to understand amendments, fertilizers, their uses, value, application, and relationship to soils and to crops grown in this area. Deficiency symptoms, pH, soil, water and plant tissue testing, and environmental factors and concerns. Field trips are required. (A-F Only) Not repeatable. Transfer: (CSU)

PLSC 255—PLANT PEST CONTROL 3 UNITS
36 Lecture Hours, 54 Lab Hours
Study of crop mites and insects, their morphology, identification, life cycles, host and habitat relationships, methods and materials of control. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

PLSC 260—PLANT DISEASE CONTROL 3 UNITS
36 Lecture Hours, 54 Lab Hours
Study of common local crop diseases, their economic importance, identification, life cycles, host and habitat relationships, and methods of control. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

PLSC 280—WEED CONTROL 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as: PLSC 380: Weed Control
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PLSC 200.

Identification, life cycle, and control of common, noxious, and poisonous California weeds. Fundamentals of preventive, cultural, biological, physical, and chemical control methods. An emphasis will be on characteristics of weeds and their identification, and herbicide application. Field trips are required. Not repeatable. (A-F Only) Transfer: (CSU)
**POLSC (POLITICAL SCIENCE)**

**POLSC 101 — AMERICAN POLITICS** 3 UNITS
54 Lecture Hours
Introduction to United States politics emphasizing the essential institutions, groups, beliefs, behaviors and processes that comprise the American political system at the national, state, and local levels. Special attention to rights and obligations of citizenship. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) (C-ID: POLS 110) General Education: (MJC-GE: B) (CSU-GE: b - Group b, DB) (IGETC: 4H)

**POLSC 102 — THE CONSTITUTION AND RIGHTS OF PERSONS** 3 UNITS
54 Lecture Hours
Formerly listed as: POLSC - 102: The Constitution and Rights of Americans
Introduction to U.S. constitutional government emphasizing the principles and problems of a constitutional system; governmental powers and sources of power at the national, state, and local levels. Special emphasis on the role of the courts and the rights and responsibilities of democratic citizenship, including units on racial and sexual discrimination, the rights of the accused, privacy, political participation, and freedom of expression and religion. Special attention to current constitutional problems at the national and state levels. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: b - Group b, DB) (IGETC: 4H)

**POLSC 110 — INTERNATIONAL RELATIONS** 3 UNITS
54 Lecture Hours
Introduction to principles and practices of international politics, emphasizing problems of war and peace, foreign policies of major powers, and problems of developing countries. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: POLS 140) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 111 — WAR & PEACE: FROM LENIN TO AL QAEDA** 3 UNITS
54 Lecture Hours
Survey of major events and personalities in the history of international politics since 1917. Topics include Origins of WWII, the rise of Communism; key personalities - Lenin, Stalin, Churchill, Truman; origins and demise of cold war, role of nuclear weapons, and the rise of terrorism. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 120 — CALIFORNIA POLITICS AND PROBLEMS** 3 UNITS
54 Lecture Hours
Analysis of government institutions, politics, issues and political behavior in California in constitutional, social, economic and cultural perspective. Included are studies of issues confronted by U.S. and California state, county, city and regional governments including political representation, resources and energy, land use and planning, population growth, poverty, education, criminal justice, pollution, budgets and taxation. Special attention to the rights and obligations of citizenship. Field trips are not required. Not repeatable. (A-F or P/NP). Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: b - Group b, DB) (IGETC: 4H)

**POLSC 130 — POLITICAL THEORY** 3 UNITS
54 Lecture Hours
Studies major political theorists and their analysis of political concepts, including democracy, freedom, authority, equality, and political leadership. Investigates how political theory is practically relevant and connected to current political issues. Field trips are not required. (A-F or P/NP). Not repeatable. Transfer: (CSU, UC) (C-ID: POLS 120) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 131 — AMERICAN POLITICAL THOUGHT** 3 UNITS
54 Lecture Hours
An introduction to American political thought and culture from the European discovery of the New World to the present. Detailed study of the Puritans, Jefferson, Adams, Tocqueville, Harriet Jacobs, King, Arendt, and others. Topics covered include republicanism, conformity, slavery, suffrage, civil disobedience, and neoconservativism. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 140 — COMPARATIVE POLITICS** 3 UNITS
54 Lecture Hours
Comparative survey of major totalitarian, authoritarian, and democratic political systems. Emphasis on the United Kingdom, France, Germany, Russia, the People's Republic of China, Japan, and selected developing countries. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: POLS 130) (CC: POLSC 16) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 165 — POLITICAL SCIENCE RESEARCH METHODS** 3 UNITS
54 Lecture Hours
This course surveys the research methods employed in political science. Research design, experimental procedures, descriptive methods, instrumentation, and the collection, interpretation, and reporting of research data, and the ethics of research are introduced. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU, UC) (C-ID: POLS 160) General Education: (MJC-GE: B)

**POLSC 180 — HUMAN RIGHTS** 3 UNITS
54 Lecture Hours
An introduction to the study of the origins, development, and recognition of fundamental human rights. Examines the role that transnational advocacy networks, leaders, citizens, governments, the United Nations, international agreements, criminal justice mechanisms, liberation technology, and humanitarian intervention play in relation to the protection of human rights. Special attention is given to politics in connection to current global human rights issues, such as human trafficking, torture, refugee rights, genocide, health care, environmental rights, and freedom of expression. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: DB) (IGETC: 4H)

**POLSC 195 — POLITICAL INTERNSHIP DISCUSSION** 1 UNIT
18 Discussion Hours
Formerly listed as POLSC - 195: Internship in Political Science. POLSC - 195: Internship in Political Science Discussion
Corequisite: Concurrent enrollment in POLSC 196.
POLS 196 — POLITICAL INTERNSHIP

1 UNIT
54 Lab Hours
Formerly listed as: POLSC - 196AB: Internship in Political Science
Corequisite: Concurrent enrollment in POLSC 195.
Supervised internship in a federal, state, or local government office; courthouse; or political organization. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU)

PSYCH 103 — INTRODUCTION TO NEUROSCIENCE

3 UNITS
54 Lecture Hours
Also offered as: PHYS 103: Introduction to Neuroscience
Prerequisite: Satisfactory completion of PSYCH 101.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.
This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: PSY 150) General Education: (MJC-GE: A) (CSU-GE: B2) (IGETC: SB)

PSYCH 104 — INTRODUCTION TO SOCIAL PSYCHOLOGY

3 UNITS
54 Lecture Hours
Formerly listed as: PSYCH - 104: Social Psychology
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PSYCH 101 and satisfactorily complete ENGL 101.
This course considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: PSY 170) General Education: (MJC-GE: B) (CSU-GE: D9) (IGETC: 4I)

PSYCH 105 — ABNORMAL PSYCHOLOGY

3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PSYCH 101.
This course introduces the scientific study of psychopathology and atypical behaviors, broadly defined. Students investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced. Field trips are required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: PSY 120) (CC:PSYCH 24) General Education: (MJC-GE: B) (CSU-GE: D9) (IGETC: 4I)

PSYCH 110 — HUMAN SEXUALITIES

3 UNITS
54 Lecture Hours
Study of human sexualities from a biopsychosocial perspective. The intersections of biology, culture, history, race, ethnicity, social class, sexual orientation and gender as they relate to sexualities will be explored throughout the course. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC:PSYCH 15) (C-ID: PSY 200) General Education: (MJC-GE: E) (CSU-GE: E) (IGETC: 4I)

PSYCH 101 — GENERAL PSYCHOLOGY

3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 49.
Principles of human behavior and personality development, and their application to today's world, including personal and job-related problem solving skills. Field trips are not required. (A-F or P/NP) Not repeatable. General Education: (MJC-GE: B)

PSYCH 102 — RESEARCH METHODS

3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of PSYCH 101 and MATH 134.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
This course surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation and the collection, analysis, interpretation and reporting of research data. Research design and methodology will be examined through a review of research in a variety of subdisciplines of psychology. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (CC:PSYCH 15) (C-ID: PSY 200)

PSYCH 51 — PSYCHOLOGY IN EVERYDAY LIFE

3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Principles of human behavior and personality development, and their application to today's world, including personal and job-related problem solving skills. Field trips are not required. (A-F or P/NP) Not repeatable. General Education: (MJC-GE: B)
PSYCH 111—PSYCHOLOGY OF GENDER

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PSYCH 101.

A survey of major factors in the development of gender identities and gender roles as they relate to the field of psychology, including: psychological, sociological, biological and cultural influences. Field trips are not required. (A-F or P/NP) Transfer: (CSU) General Education: (MJC-GE: B) (CC PSYCH 101) (C-ID: PSY 115)

PSYCH 118—DRUGS AND HUMAN BEHAVIOR

54 Lecture Hours

Also offered as: HUMSR 118: Drugs and Human Behavior

Formerly listed as: Pharmacology of Abused Substances

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete HUMSR 116 or satisfactorily complete PSYCH 101.

Overview of the physiological and psychological effects of recreational and medicinal psychoactive substances including stimulants, sedative-hypnotics, antidepressants, antipsychotics, alcohol, opiates, hallucinogens, and marijuana. The course will examine the neurobiological, behavioral and social factors that influence drug use, abuse, and dependence. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU) General Education: (MJC-GE: E)

PSYCH 130—PERSONAL ADJUSTMENT

54 Lecture Hours

This course is designed with an applied focus for students interested in how psychology is used in everyday life and is related to other social sciences. The course surveys different psychological perspectives and theoretical foundations and how these are applied across a person’s life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians and practitioners study and apply psychology is emphasized. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU) General Education: (MJC-GE: B) (CSU-GE: D4, D9) (IGETC: 4D, 4I)

PSYCH 141—HUMAN LIFESPAN DEVELOPMENT

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PSYCH 101 and satisfactorily complete ENGL 101.

Introduction to the scientific study of human development from conception through death. Examines the interplay of biological, psychological, social, and cultural forces on the developing human being. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: PSY 180) General Education: (MJC-GE: E) (CSU-GE: E) (IGETC: 4I)

PSYCH 400—PSYCHOLOGY OF STRESS, ILLNESS, & DEATH

54 Lecture Hours

Limitations on Enrollment: Enrollment limited to students who are accepted into the Respiratory Care Baccalaureate Degree program.

Advanced critical analysis of the guiding beliefs of stress and illness as it affects the self. A vital exploration of the human experience in health, dis-ease, and dying from the perspective of the self as a health care professional. Contemporary theories and research, behavioral traits and characteristics, and the effect of our biopsychosocialspiritual perspectives on personal health, wellness, and dis-ease within healthcare systems. Field trips might be required. Not repeatable. (A-F Only)

READ 21—VOCABULARY DEVELOPMENT

54 Lecture Hours

Designed to prepare students for college-level vocabulary by focusing on context clues, word affixes, and Greek and Latin roots. Field trips are not required. Not repeatable. (A-F Only)

READ 40—READING COMPREHENSION

54 Lecture Hours

Designed to improve reading skills by focusing on comprehension strategies, vocabulary development, and analysis of various reading selections. Field trips are not required. Not repeatable. (A-F Only)

READ 62—COLLEGE VOCABULARY

54 Lecture Hours

Development of college-level vocabulary. Use of context clues and structural analysis emphasized. Field trips are not required. Not repeatable. (A-F Only)

READ 82—COLLEGE READING - COMPREHENSION

54 Lecture Hours

Recommended for Success: Satisfactory completion of READ 40 or qualification by the MJC assessment process.

Designed to improve college-level reading skills by focusing on comprehension skills, vocabulary development, and analysis of various reading selections. Field trips are not required. Not repeatable. (A-F Only)

READ 184—CRITICAL READING

54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete READ 82 or qualification by MJC assessment process.

Reading for inferred ideas, critical evaluation of ideas, tone, mood, and style. Discussion of application of reader’s knowledge to reading material. Field trips are not required. Not repeatable. (A-F Only) Transfer: (CSU) General Education: (MJC-GE: D2)
This course is a study of California real estate laws. Topics include: the principal legal aspects of ownership, acquisition and transfer of real property, legal descriptions, contracts, escrow procedures, forms of trust and foreclosure, liens, and restrictions, legal instruments, property ownership and management, real estate security devices, property rights, liens and homesteads, landlord-tenant law, land use controls, and title insurance and escrow. Completion of the course applies toward the education requirements for the California Department of Real Estate License examination. Field trips might be required. (A-F or P/NP) Not repeatable.

RLES 384—REAL ESTATE FINANCE 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete RLES 380 or satisfactorily complete RLES 381.

This course is an analysis of real estate financing, including regulations, policies and procedures applicable to financing residential, multi-family, commercial and special purpose properties. Special attention to the money market, sources of funds and FHA and VA loans as factors in property financing. The course applies toward the educational requirements for the California Real Estate License Examination. Field trips might be required. (A-F or P/NP) Not repeatable.

RLES 385—REAL ESTATE APPRAISAL, RESIDENTIAL 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete RLES 380 and/or satisfactorily complete RLES 381.

This course covers the purposes of appraisals, examination of the appraisal process, and the different approaches, methods and techniques used to determine property value on cost, sales comparison, and income basis. Consideration of neighborhood and site analysis, residential style, and functional utility, three approaches to value, reconciliation of value indicators, and Uniform Standards of Professional Practice. The course emphasizes residential single family properties and applies toward the educational requirement for the California Real Estate License. Field trips might be required. (A-F or P/NP) Not repeatable.

RLES 392—BASIC ESCRROW PROCEDURES 3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete RLES 380 and/or satisfactorily complete RLES 381.

This course covers the functions and responsibilities of the escrow holder, including actual preparation of escrow instructions and documents in a typical real estate transaction. Audit, disbursement, the issuance of closing statements and analysis of title insurance policies are covered. This course counts toward the education requirement for the California Real Estate license exam. Field trips might be required. (A-F or P/NP) Not repeatable.
RSCR (RESPIRATORY CARE)

RSCR 220—INTRODUCTION TO RESPIRATORY CARE PRINCIPLES 5 UNITS
72 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of CHEM 143.
Corequisite: Concurrent enrollment in RSCR 230.
Limitations on Enrollment: Enrollment limited to students admitted to the respiratory care program.
Covers basic physical principles necessary for the practice of respiratory care to include the following: medical terminology, fundamentals of general bedside patient care skills, underlying physical principles of respiratory care equipment, and indications for the use of oxygen and aerosol therapy and related equipment. Materials fee required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

RSCR 222—CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 UNITS
54 Lecture Hours
Formerly listed as: RSCR - 222: Basic Cardiopulmonary Anatomy and Physiology
Prerequisites: Satisfactory completion of AP 150 or ANAT 125 and PHYSO 101
Structure and functions of the pulmonary and cardiovascular systems. Application of laws of gas and fluid physics to the cardiopulmonary system. Field trips may be required. (A-F Only)(Fall) Not repeatable. Transfer: (CSU)

RSCR 224—RESPIRATORY CARE THEORY 2 5 UNITS
72 Lecture Hours, 54 Lab Hours
Formerly listed as: RSCR 203
Prerequisites: Satisfactory completion of RSCR 220.
Corequisite: Concurrent enrollment in RSCR 222 and RSCR 232.
Theoretical foundation for basic treatment modalities utilized in Respiratory Care. Topics covered include: hyperinflation therapies, chest physical therapy, basic airway care and cardiopulmonary pharmacology. Associated equipment will be covered during scheduled labs. Field trips might be required. Not repeatable. (A-F Only) Transfer: (CSU)

RSCR 230—CLINICAL 1 1 UNIT
54 Lab Hours
Corequisite: Concurrent enrollment in RSCR 220.
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete AP 150.
Clinical experience in oxygen therapy, aerosol-humidity therapy and other basic respiratory care modalities used in area hospitals. Field trips are required. (P/NP Only) Not repeatable. Transfer: (CSU)

RSCR 232—CLINICAL 2 3.5 UNITS
189 Lab Hours
Prerequisite: Satisfactory completion of RSCR 230.
Corequisite: Concurrent enrollment in RSCR 222 and RSCR 224.
Clinical experience in the various routine respiratory care procedures and the equipment used in area hospitals. Attention is paid to the student performing critical evaluations of current therapy and the application of clinical practice guidelines. Field trips are required. (P/NP Only) Not repeatable. Transfer: (CSU)

RSCR 240—ADVANCED CARDIOPULMONARY PHYSIOLOGY 4.5 UNITS
81 Lecture Hours
Prerequisite: Satisfactory completion of RSCR 222 and RSCR 224.
Limitations on Enrollment: Enrollment limited to students who are accepted into the Respiratory Care Program.
Advanced cardiopulmonary physiology and diagnostics for the second-year respiratory care student. Includes advanced arterial blood gas analysis, indices of oxygenation, chest x-ray interpretation, hemodynamic monitoring, laboratory testing, capnography, and ECG interpretation with an emphasis on clinical setting application. Also includes discussion of various pathologies caused by cardiovascular conditions. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

RSCR 242—CRITICAL CARE PROCEDURES 4.5 UNITS
63 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of RSCR 222, RSCR 224, and MICRO 101.
Limitations on Enrollment: Enrollment limited to students who are accepted into the Respiratory Care Program.
Theory and application of critical care procedures for second year respiratory care students. Advanced theory and application of mechanical ventilators, associated pathophysiology and pharmacology, microbiological issues in respiratory care; application of ECG interpretation and chest x-ray interpretation. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU)

RSCR 244—NEONATAL-PEDIATRIC RESPIRATORY CARE 2 UNITS
36 Lecture Hours
Prerequisites: Satisfactory completion of RSCR 240 and 242.
Introduction to respiratory care for the neonatal and pediatric patient. Topics include: fetal/neonatal development, resuscitation, disease pathophysiology, critical care, and current neonatal and pediatric respiratory care procedures and modalities. Field trips might be required. (A-F Only) Transfer: (CSU)

RSCR 246—CURRENT ISSUES IN RESPIRATORY CARE 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of RSCR 240 and RSCR 242.
Limitations on Enrollment: Enrollment limited to students who are admitted to the Respiratory Care program.
Introduction to specialty areas of respiratory care. Review of pathophysiology of respiratory disease processes and treatment. Includes a comprehensive review to prepare students for state and national examinations. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU)

RSCR 250—CLINICAL 3 3.5 UNITS
189 Lab Hours
Formerly listed as: RSCR 213
Prerequisites: Satisfactory completion of RSCR 232.
Corequisite: Concurrent Enrollment: RSCR 240 and 242
Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Program.

Clinical experience in the various critical care respiratory procedures and the equipment used for these procedures in area hospitals. Field trips are not required. Not repeatable. (P/NP Only). Transfer: (CSU)

RSCR 251—NEONATAL AND PEDIATRIC CLINICAL PRACTICE 1 0.5 UNITS
27 Lab Hours
Prerequisites: Satisfactory completion of RSCR 242.
Corequisite: Concurrent enrollment in RSCR 244.
This course provides an introduction to respiratory care clinical practice for neonatal and pediatric patients in acute critical and chronic care environments. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU)

RSCR 252—PHYSICIAN ROUNDS FOR RESPIRATORY CARE 0.5 UNITS
27 Lab Hours
Prerequisite: Satisfactory completion of RSCR 242.
Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care program.
Opportunity for interaction between physicians and respiratory care students to determine the appropriateness of a respiratory care plan; includes use of computer instruction in formulating adequate care plans and use of respiratory care protocols. Field trips are required. Not repeatable. (P/NP Only) Transfer: (CSU)

RSCR 253—NEONATAL AND PEDIATRIC CLINICAL PRACTICE 2 0.5 UNITS
27 Lab Hours
Prerequisites: Satisfactory completion of RSCR 242 and RSCR 244
Additional respiratory care clinical practice in perinatal, neonatal and pediatric care. Field trips might be required. Laboratory. (Summer)(P/NP Only) Not repeatable. Transfer: (CSU)

RSCR 255—CLINICAL 4 4.5 UNITS
243 Lab Hours
Prerequisite: Satisfactory completion of RSCR 244.
Corequisite: Concurrent enrollment in RSCR 246.
Limitations on Enrollment: Enrollment limited to students accepted into the Associate Degree Respiratory program
This course is the continuation of clinical experiences in adult and neonatal critical care as well as alternative sites for respiratory care. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU)

RSCR 257—CLINICAL PRECEPTORSHIP 2.5 UNITS
133 Lab Hours
Prerequisite: Satisfactory completion of RSCR 244
Corequisite: Concurrent enrollment in RSCR 246.
Limitations on Enrollment: Enrollment limited to students admitted into the Respiratory Care program.
Four week clinical preceptorship in which student must demonstrate proficiency in all areas of clinical respiratory care practice. Field trips are not required. (P/NP Only) Not repeatable. Transfer: (CSU)

RSCR 405—HEALTHCARE LEADERSHIP AND OPERATIONS MANAGEMENT 3 UNITS
54 Lecture Hours
Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.
Principles, theories and models of leadership and management will prepare students for leadership roles in respiratory care. During the course, students will examine the challenges of decision making, health care access, quality, budget development and cost containment, and the disparities in healthcare reform. Legal and ethical issues are integrated into classroom discussions. Field trips are not required. Not repeatable. (A-F Only) Lecture.

RSCR 406—HEALTHCARE LEADERSHIP AND OPERATIONS MANAGEMENT II 4 UNITS
72 Lecture Hours
Prerequisite: Satisfactory completion of RSCR 405.
Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree program.
Healthcare Leadership and Operations Management II will prepare students for management and leadership roles in respiratory care. This course builds on the Principles of Leadership and Management I utilizing those skills to specifically lead in a Respiratory Care Department. Topics include: an overview of selected respiratory theories and an analysis of the professional environment for the current and future of practice of respiratory care. During the course students will examine respiratory departmental leadership roles and requirements, how to measure respiratory care department specific performance, respiratory staffing systems, respiratory hospital billing systems, respiratory care departmental budgets, evaluations technology and staff development. Topics and emphasis may vary. The student will develop a personal professional portfolio as part of this course. Legal and ethical issues are integrated into discussions. Field trips are not required. Not repeatable. (A-F Only)

RSCR 410—CRITICAL REVIEW OF HEALTHCARE RESEARCH 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of RSCR 405.
Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.
This course provides the forum for the student to identify and explore current events, knowledge, and skills relevant to the practice of Pulmonary and Cardiovascular Medicine. Students are expected to evaluate and review scholarly and peer-reviewed research, describe influencing factors, and critically determine the quality of the research being presented. The students will learn to use research databases, research methodologies, elements in a research directed review, and APA formatting. Individual and group presentations of critiqued research are integrated into the course. Field trips are not required. Not repeatable. (A-F Only) Lecture.

RSCR 415—DISEASE MANAGEMENT AND HEALTHCARE PROMOTION 3 UNITS
54 Lecture Hours
Prerequisite: Satisfactory completion of RSCR 410.
Limitations on Enrollment: Enrollment limited to students enrolled in the Respiratory Care Baccalaureate Degree program.
This course will present the underlying principles that characterize disease management. The student will discover the cost drivers of disease, concepts of chronic disease management, and healthcare value. The course will focus on current evidence-based practice, guidelines, and competencies necessary for patient care which require a coordinated approach to healthcare management. Field trips are not required. Not repeatable. (A-F Only) Lecture.

RSCR 416—EDUCATION AND TEACHING STRATEGIES FOR HEALTHCARE PROFESSIONALS
54 Lecture Hours

Limitations on Enrollment: Enrollment limited to students accepted in the Respiratory Care Baccalaureate Degree program.

Education and Teaching Strategies for Healthcare Professionals will help prepare the student for teaching both in the classroom and outside the classroom such as in the clinical arena. This course provides an in-depth coverage around teaching, learning and evaluations strategies and addresses different styles of learning, diversity in the classroom and critical thinking. Creative and innovative strategies and techniques will be discussed in addition to the importance of the use of simulation in the classroom and other technologies to help promote learning and engagement. The importance of program evaluation will also be reviewed. Field trips are not required. Not repeatable. (A-F Only)

RSCR 420—ADVANCED PHARMACOLOGY AND CRITICAL CARE
3 UNITS
54 Lecture Hours

Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.

This course is designed to enhance the skills of respiratory care practitioners in assessment and management of critically ill adult patients. Students will enhance proficiency in the use of therapist driven protocols in critical care and develop aptitude in ethical and legal issues related to trauma, withdrawal of life-support, comfort and palliative care, and end of life decisions. Materials fee required. Field trips are not required. Not repeatable. (A-F Only)

RSCR 421—ADVANCED NEONATAL AND PEDIATRIC CRITICAL CARE
3 UNITS
54 Lecture Hours

Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.

This course covers advanced concepts of acute care for critically ill neonatal and pediatric patients through assessment, diagnosis, monitoring, mechanical ventilation initiation and management, and pharmacological intervention. Materials fee required. Field trips might be required. Not repeatable. (A-F Only)

RSCR 425—PULMONARY DIAGNOSTICS, REHABILITATION, AND SLEEP
3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of RSCR 420.

Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.

This course provides information needed to enhance the knowledge, competency, and skill of respiratory care practitioners in pulmonary function testing, endobronchial ultrasound, thoracentesis, airway thermoplasty, sleep technology diagnostics, and pulmonary rehabilitation. Field trips might be required. Not repeatable. (A-F Only) Lecture.

RSCR 430—CAPSTONE RESEARCH
3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of RSCR 425.

Limitations on Enrollment: Enrollment limited to students accepted into the Respiratory Care Baccalaureate Degree Program.

As the final component to the Baccalaureate Degree Program in Respiratory Care, this course provides the students with the opportunity to synthesize and apply prior learning, practice experience, and knowledge gained in this program. Students will complete a real world project under the direction of a faculty member. The project will be based on a clinical population, disease management aspect, a management or leadership issue current to their employment or experience. The project will provide input to their classmates of the importance of this research and how it improves patient outcomes. The project will be both written and orally given to the class. The student will have weekly discussions via groups of current topics in the research literature that relate to Respiratory Care. This will be broad and not related to individual research. Progress in the research project will be monitored throughout the semester. Field trips might be required. Not repeatable. (A-F Only) Lecture.

SIGN (SIGN LANGUAGE)

SIGN 125—ASL: BEGINNING COMMUNICATION WITH THE DEAF
3 UNITS
54 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.

Introduction to American Sign Language is designed to provide basic conversational skill in the language used among Deaf people in the United States. This course is equivalent to the first two years of high school ASL. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)

SIGN 126—ASL: INTERMEDIATE COMMUNICATION WITH THE DEAF
3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of SIGN 125.

Communicating with and interpreting for the Deaf at an intermediate conversational level using American Sign Language. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)

SIGN 127—ASL: ADVANCED COMMUNICATION WITH THE DEAF
3 UNITS
54 Lecture Hours

Prerequisite: Satisfactory completion of SIGN 126.

Extensive development of and practice in American Sign Language for those who would like to interpret for the Deaf or for those who want to become professionals working in the Deaf community. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A) Not repeatable.
**SM (Sheet Metal)**

The Vocational Sheet Metal courses teach layout, measurement, forming, and installation as well as the mathematics required for sheet metal fabrication. Curriculum is developed and closely monitored in consultation with local air conditioning and heating contractors.

**SM 331—Sheet Metal and Installation 1**  
3 UNITS  
54 Lecture Hours  

**SM 332—Vocational Sheet Metal and Installation 2**  
3 UNITS  
54 Lecture Hours  
Formerly listed as: SM 32  
Prerequisite: Satisfactory completion of SM 331  

**SOCIO (Sociology)**

**SOCIO 101—Introduction to Sociology**  
3 UNITS  
54 Lecture Hours  
An introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics typically include the analysis and explanation of social structure, group dynamics, socialization and the self, social stratification, culture and diversity, social change, and globalization. Course objectives include the ability to apply sociological ideas to everyday life. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC SOCIO 1) (C-ID: SOCI 110) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4J)

**SOCIO 102—Social Problems in the United States**  
3 UNITS  
54 Lecture Hours  
The experiences of caregivers and patients from several ethnic minority groups. The study of contemporary social problems within the American society emphasizing, among other topics, alcohol and drugs, crime and violence, family problems, power, race, and gender inequalities. Construction of possible solutions to social problems will also be discussed. Field trips might be required. Not repeatable. Transfer: (CSU, UC) (CC SOCIO 2) (C-ID: SOCI 115) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4J)

**SOCIO 105—Introduction to Statistics for the Social & Behavioral Sciences**  
3 UNITS  
54 Lecture Hours  
Prerequisite: Satisfactory completion of MATH 89 or MATH 90 or qualification by the MJC assessment process.  
Introduction to statistics for students in the social and behavioral sciences. Topics will include descriptive and inferential statistics, scales of measurement, measures of central tendency and variability, correlation and regression, probability distributions (including the normal, t, and chi-square distributions), and hypothesis testing. Course will include application of statistical software to data from the social and behavioral sciences. Field trips are not required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (C-ID: SOCI 125) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2A)

**SOCIO 125—Sociology of the Family**  
3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 or qualification by MJC assessment process.  
Sociological analysis of the family, including historical and recent changes, present nature and the socio-cultural and economic forces shaping these changes. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC SOCIO 12) (C-ID: SOCI 130) General Education: (MJC-GE: B) (CSU-GE: D0) (IGETC: 4J)

**SOCIO 150—Ethnicity and Culture in America**  
3 UNITS  
54 Lecture Hours  
A multidisciplinary study of ethnic and racial groups in the United States including Asian-Americans, African-Americans, Hispanics, among others. Emphasizes emergence, change, marginality, and integration of major ethnic groups in the United States. Field trips might be required. Not repeatable. Transfer: (CSU, UC) (CC SOCIO 5) (C-ID: SOCI 150) General Education: (MJC-GE: B) (CSU-GE: D0, D3) (IGETC: 4J)

**SOCIO 154—African-American Cultures and Communities**  
3 UNITS  
54 Lecture Hours  
A sociological exploration of the social and historical forces shaping contemporary African-American experiences and their multiple statuses in American society. Effects of stratification, conflict and change as well as the historical and current roles of the family within dynamic communities are emphasized. Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D0, D3) (IGETC: 4J)

**SOCIO 156—Mexican Culture in the United States**  
3 UNITS  
54 Lecture Hours  
Contemporary Mexican-American Culture, problems and contributions, origins and nature. Intergroup contacts and conflicts. Field projects concern Mexican-American assimilation within the region. Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B) (CSU-GE: D0, D3) (IGETC: 4J)

**SOCIO 400—Medical Sociology: Health and Diversity**  
3 UNITS  
54 Lecture Hours  
Limitations on Enrollment: Enrollment limited to students who are admitted into the Respiratory Care Baccalaureate Degree program.  
Advanced critical analysis of the ethos of contemporary western medicine. In particular
critical examination of disparity in medical access, care, and provision within ethnic groups is unpacked. Determinants of health and illness contemporary theories, reconfiguring the body, the distinction between disease and illness, the sick role, socio-economics of disease and care, medicalization theory, feminist theory and health (women’s embodiment of disease), - labeling theory, healing roles, emotional labor, and power dimensions within the health care system are examined within the framework of our embodiment of disease), - labeling theory, healing roles, emotional labor, and power dimensions within the health care system are examined within the framework of our embodiment of disease. Field trips might be required. Not repeatable. Lecture. (A-F Only)

SOCSC (SOCIAL SCIENCE)

SOCSC 58 — STUDENT LEADERSHIP DEVELOPMENT 2 UNITS
36 Lecture Hours
Theory, practice, and application of leadership principles. Prepares students for productive involvement in community service, college activities, and civic governance. Designed especially, but not exclusively, for students participating in student government and club activities. Field trips might be required. (A-F or P/NP) Not repeatable. (CC: GUIDE 51-formerly GUIDE 115) Local Requirement: Activities

SOCSC 105 — WOMEN’S STUDIES 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Using a multidisciplinary approach, this course explores political, economic, social, cultural, and historical issues from a feminist and global perspective. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: B, C) (CSU-GE: D0, D4) (IGETC: 4D, 4J)

SOCSC 109 — INTRODUCTION TO EDUCATION-PRACTICUM IN TUTORING 3 UNITS
54 Lab Hours
Formerly listed as: SOCSC 109: Intro Education - Practicum in Tutoring
Limitations on Enrollment: Enrollment limited to students who provide fingerprint and TB clearance.
Orientation to the teaching profession. Designed for prospective elementary, secondary, or college teachers but open to all. Students are required to observe in an appropriate educational setting. Partially meets field experience requirement for teaching credential program at CSU Stanislaus. Fingerprint Clearance and TB Clearance is required. Field trips might be required. Not repeatable. Transfer: (CSU, UC)

SOCSC 110 — INTRODUCTION TO ELEMENTARY EDUCATION 3 UNITS
54 Lecture Hours
Formerly listed as: SOCSC - 110: Introduction to Education
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 101.
Orientation to the teaching profession. Designed for prospective elementary and middle school teachers, but open to all students. Students are required to observe and participate in community classrooms. Meets field experience requirement for teaching credential program. Fingerprint Clearance and TB Clearance is required. Field trips are not required.

SPAN (SPANISH)

SPAN 45 XAB — PRACTICAL SPANISH FOR THE PROFESSIONS 0.5-2 UNITS
X= 9 Lecture Hours, A= 18 Lecture Hours, B= 36 Lecture Hours
Conversational Spanish for people working with the Spanish-speaking in the following areas: health, education, law enforcement, social work, agriculture, construction, public safety, and business. Occupational topics vary from semester to semester. May be repeated for credit as topic changes. A student may take Spanish for Nursing one semester and learn vocabulary appropriate to the nursing profession and the following semester may take Spanish for Law Enforcement and learn vocabulary appropriate for law enforcement officers. Field trips might be required. (A-F or P/NP) Not repeatable.

SPAN 51 — INTRODUCTORY SPANISH 1 3 UNITS
54 Lecture Hours
Slow-paced, non-transferable course designed for people who have never studied a foreign language before, especially Spanish. Basic Spanish grammar and pronunciation. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CC: SPAN 10A) General Education: (MJC-GE: C)

SPAN 52 — INTRODUCTORY SPANISH 2 3 UNITS
54 Lecture Hours
Formerly listed as: SPAN 52 - Introduction to Practical Spanish 2
Prerequisite: Satisfactory completion of SPAN 51 or equivalent introductory course.
Slow-paced, non-transferable course designed for people who wish to continue from SPAN 51. Basic Spanish grammar and pronunciation. Field trips might be required. (A-F or P/NP) Not repeatable. General Education: (MJC-GE: C)
SPAN 101—SPANISH 1  
90 Lecture Hours  
Fundamentals of spoken and written Spanish. Equivalent to the satisfactory completion of two years high school Spanish. Field trips are not required. (A-F or P/NP) Not repeatable. 
Transfer: (CSU, UC) (CC SPAN 1A) (C-ID: SPAN 100) General Education: (MJC-GE: C) (CSU-GE: C3) (IGETC: 6A)  

SPAN 102—SPANISH 2  
90 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 101.  
Continuation of Spanish 101. Emphasis onpreterite and imperfect tenses of the indicative mood. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC SPAN 1B) (C-ID: SPAN 110) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)  

SPAN 103—SPANISH 3  
72 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 102.  
Continuation of Spanish 102. Includes Spanish grammar, conversation, reading and composition. Also includes reading and discussion in Spanish of selections from literary works of Spanish and Latin American writers. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)  

SPAN 104—SPANISH 4  
72 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 103.  
Review and expansion of grammatical structures covered in Spanish 101-103. Includes a review of the uses of the subjunctive and the reading and discussion of literary works of Spanish and Latin American writers. Students will continue to demonstrate the ability to think critically by analyzing linguistic structures and making cross-cultural comparisons. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)  

SPAN 109—SPANISH FOR SPANISH SPEAKERS 1  
90 Lecture Hours  
Formerly listed as: SPAN - 109: Span for Span Speakers: Fundamentals  
Recommended for Success: Before enrolling in this course, students are strongly advised to understand and be able to communicate in Spanish with near native fluency. Some formal academic study in the language is also desired.  
The first of two courses intended for Native or Heritage Spanish speakers who already speak, read and write in Spanish at varying levels and with some academic study in the language. This course will focus on: the review of major elements of Spanish grammar, vocabulary acquisition, and student improvement of oral and written communication skills. Through the study of selected readings, students will expand on their own experiences and explore other Spanish Speaking cultures. Equivalent to the satisfactory completion of two years high school Spanish. Taught in Spanish. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 6A)  

SPAN 110—SPANISH FOR SPANISH SPEAKERS 2  
90 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 109.  
A continuation of SPAN 109. This course is intended for Spanish-speaking students who seek to continue building their reading, writing, speaking, and listening skills in standard Spanish. Students will continue to increase awareness of linguistic registers, and discuss topics beyond the familiar routine through continued grammar review, vocabulary expansion and writing. Students will continue to expand upon their appreciation for Spanish speaking cultures through the discussion and analysis of selected readings, in Spanish, from Spanish speaking countries and the United States. Equivalent to the satisfactory completion of three years of high school Spanish. Taught exclusively in Spanish. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 6A)  

SPAN 112—INTRODUCTION TO CHICANO/A LITERATURE  
3 Units  
54 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 104 or SPAN 110.  
Overview of the historical development and current trends in Chicano/a literature; taught in Spanish. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)  

SPAN 173—SURVEY OF LATIN AMERICAN LITERATURE  
3 Units  
54 Lecture Hours  
Prerequisite: Satisfactory completion of SPAN 104 or SPAN 110.  
Introduction to Latin American literature from the Pre-Columbian Period to the present; a literary survey of major works from different literary movements and from various genres such as poetry, short story, essay, drama, and the novel. Taught in Spanish. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C2) (IGETC: 3B, 6A)  

SPELL (SPELLING)  
SPEL 31—BASIC SPELLING AND PHONICS  
3 Units  
54 Lecture Hours  
Designed for non-native speakers to improve reading and spelling skills. Emphasis on English sound-symbol relationships and phonics rules. Discrimination between words which are similar in either sound or spelling. Field trips are not required. Not repeatable. (A-F Only)  

SPELL 32—SPELLING AND PRONUNCIATION  
3 Units  
54 Lecture Hours  
Designed to improve spelling and pronunciation skills by introducing and practicing the phonic patterns of English. Field trips are not required. Not repeatable. (AF Only).
STSK (STUDY SKILLS/COUNSELING)

STSK 25—STUDENT SUCCESS STRATEGIES 1 UNIT
9 Lecture Hours, 9 Disc Hours
Designed to increase the student's success in college and facilitate the transition to the workplace and other college courses. Practical emphasis on goal setting, time management, study skills and interpersonal communication. This class does not meet guidance requirements for graduation. (A-F Only) Lecture/Disc. Not repeatable.

STSK 78—COLLEGE STUDY SKILLS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50 and satisfactorily complete READ 82 or qualification by MJC assessment process.

STSK 26—SUMMARY OF IDEAS 3 UNITS
54 Lecture Hours
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete BUSAD 240.

TOTAL QUALITY MANAGEMENT, TQM, is a method by which management and employees can become involved in the continuous improvement of the production of goods and services. This course focuses on total quality management concepts, methodologies and practices of services and manufacturing industries. Topics like organizational and cultural aspects of total quality management associated with implementing quality systems, communicating the quality message, team building, training and learning will be addressed. Field trips are not required. (A-F or P/NP) Not repeatable.

SUPR (SUPERVisory MANAGEMENT)

SUPR 106—GROUP & ORGANIZATIONAL COMMUNICATION 3 UNITS
54 Lecture Hours
Formerly listed as: SUPR 106: Organizational Communication
Also offered as: COMM 106
Communication within and between groups and organizations while enhancing individual communication skills. Emphasis on communication and organizational theory as basis for focus on such communication processes as task-oriented discussions, problem solving, leadership, conflict resolution and negotiation, communication climate, and organizational culture. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (C-ID: COMM 140) General Education: (MJC-GE: D2)

SUPR 351—ELEMENTS OF SUPERVISION 3 UNITS
54 Lecture Hours
Also offered as: BUSAD 351
The nature and function of the supervisor's role in business, industry, and government. The skills and techniques of effective management will be examined and applied in terms of attaining maximum results through the cooperative efforts of others. Field trips are not required. (A-F or P/NP) Not repeatable.

SUPR 364—TOTAL QUALITY MANAGEMENT 3 UNITS
54 Lecture Hours
Also offered as: BUSAD 364
Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete SUPR 351 or satisfactorily complete BUSAD 240.

THETR (THEATRE)

Note: For Dance Courses See DANCE

THETR 100—INTRODUCTION TO THEATRE ARTS 3 UNITS
54 Lecture Hours
This course focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC DRAMA 10) (C-ID: THETR 111) General Education: (MJC-GE: C) (CSU-GE: C1) (IGETC: 3A)

THETR 105—INTRODUCTION TO STAGECRAFT 3 UNITS
45 Lecture Hours, 27 Lab Hours
An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, prop construction, backstage organization, and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and practical experiences. Field trips are not required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 171) Local Requirement: (Activities)

THETR 114—SCRIPT ANALYSIS 3 UNITS
54 Lecture Hours
Basic approach to analysis of a play script, intended to provide theatre practitioners and generalists with tools necessary to understand the literary text of a play, and its application to work in performance, design and critical/historical studies. Fully explores an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Field trips might be required. Not repeatable. (A-F or P/NP) Transfer: (CSU, UC) (CID: THETR 114) General Education: (MJC-GE: C)

THETR 122—INTRODUCTION TO READERS' THEATRE 3 UNITS
54 Lecture Hours
Also offered as: COMM 122 (SPCOM 122): Introduction to Readers’ Theatre
Study of oral interpretation principles as they apply to group and choral reading. Emphasis will be placed upon the preparation and performance of Readers’ Theatre productions. Students are provided the necessary theory, practice for performance and criticism to enhance skills for development and oral presentation of Readers’Theatre material. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC DRAMA 22) General Education: (MJC-GE: C) (CSU-GE: C1)
THETR 123—STORYTELLING 3 UNITS
54 Lecture Hours

Also offered as: COMM 123 (SPCOM 123): Storytelling

Introduction to the art of storytelling focusing on the preparation and presentation of literature. Emphasis is placed upon selection of materials, analysis, preparation, and presentation of various genres of stories. Designed to develop the adult reader’s knowledge, critical ability and appreciation of literature, as well as critical listening of others sharing literature. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 124—ADVANCED READERS’ THEATRE 3 UNITS
54 Lecture Hours

Also offered as: COMM 124 (SPCOM 124): Advanced Readers’ Theatre

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete COMM (SPCOM) 122 or satisfactorily complete THETR 2.

Continued development of the construction and direction of Readers’ Theatre performances suitable for public presentation. Emphasis on analysis of reading materials and helping others enhance communication skills through vocal control and physical expression. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 133—REHEARSAL AND PERFORMANCE 1 2 UNITS
108 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Participation as actors in a fully supported theatre production. This introductory course focuses on ensemble performance techniques that are essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 191) Local Requirement: (Activities)

THETR 134—REHEARSAL AND PERFORMANCE 2 2 UNITS
108 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Participation as an actor cast in a fully supported theatre production. This course focuses on techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Transfer: (CSU, UC) (C-ID: THTR 191) Local Requirement: (Activities)

THETR 135—REHEARSAL AND PERFORMANCE 3 2 UNITS
108 Lab Hours

Limitations on Enrollment: Enrollment limited to successful audition process and get cast in a role.

Participation as an actor with intermediate skills level in a fully supported theatre production. This course focuses on the intermediate techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 191) Local Requirement: (Activities)

THETR 136—REHEARSAL AND PERFORMANCE 4 2 UNITS
108 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass the audition process and get cast in a role.

Participation as an actor with advanced skills level in a fully supported theatre production. This course focuses on advanced techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 191) Local Requirement: (Activities)

THETR 139—REHEARSAL AND PERFORMANCE IN MUSICAL THEATRE 2 UNITS
108 Lab Hours

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Students participate as actors, singers, dancers in a fully supported musical theatre production. This course focuses on individual and ensemble performance techniques that are essential for a musical or opera production. Participation in rehearsals and public performances is required. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 191) Local Requirement: (Activities)

THETR 160—FUNDAMENTALS OF ACTING 3 UNITS
45 Lecture Hours, 27 Lab Hours

Prepares the student to apply basic acting theory to performance. Develops the skills of interpretation of drama through acting. Emphasis on skills for performance: memorization, stage movement, vocal production, and interpretation of text. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (CC DRAMA 42) (C-ID: THTR 152) General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 161—INTERMEDIATE ACTING 3 UNITS
45 Lecture Hours, 27 Lab Hours

Prerequisite: Satisfactory completion of THETR 160.

This course follows Acting I (Fundamentals of Acting) and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues and scenes. The work in class will be presented at the end of the semester in a culminating final public performance. Field trips might be required. (A-F Only) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 152) General Education: (MJC-GE: C) (CSU-GE: C1)

THETR 164—IMPROVISATIONAL ACTING 3 UNITS
45 Lecture Hours, 27 Lab Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete THETR 160.

Intensive study of the basic techniques of theatre games and improvisational acting with specific concentration on improvisational theatre formats. Course will culminate in a public improvisational performance. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) Local Requirement: (Activities)
COURSES

THETR 174—STAGE MAKEUP  3 UNITS  
45 Lecture Hours, 27 Lab Hours  
Instruction and practice in a lecture/laboratory setting in all phases of makeup specifically 
designed for theatrical use. Materials fee required. Field trips are not required. (A-F or P/ 
NP) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 361) Local Requirement: (Activities)

THETR 175—STAGE COSTUMING  3 UNITS  
45 Lecture Hours, 27 Lab Hours  
Costume history, design, and basic construction techniques as an introduction to basic 
thematic costuming. Fabrics and their various uses will be investigated. Field trips might 
be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 175) Local 
Requirement: (Activities)

THETR 182—PRACTICAL STAGE LIGHTING  3 UNITS  
45 Lecture Hours, 27 Lab Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised 
to satisfactorily complete THETR 100.

An introduction to the art and practice of lighting design for the stage. Lectures will 
include: the use and control of stage lighting instruments, choosing color, basic electricity, 
the physical and psychological properties of light as applied to stage illumination. 
Practical application in lab work will include assisting in the lighting of a fully supported 
play, musical or dance production. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU, UC) (C-ID: THTR 173)

THETR 190—THEATRE PRODUCTION WORKSHOP  1 UNIT  
54 Lab Hours  
Formerly listed as: THETR 190AB: Theatre Production Workshop

A repeatable, multi-technical, group lab-only course focusing on the practical aspect of 
mounting and running a theatrical production. Students will gain practical experience in 
the application of production responsibilities in any of the following: stage management, 
house management, scenery or costume construction, lighting, sound and running crews. 
Field trips are not required. Four completions allowed. (A-F or P/NP) Transfer: (CSU, UC) 
(C-ID: THTR 192) Local Requirement: (Activities)

THETR 196—STAGE MANAGEMENT  3 UNITS  
54 Lecture Hours  
Recommended for Success: Before enrolling in this course, students are strongly advised 
to satisfactorily complete THETR 100.

The functions and duties of stage managers, production managers and directors for live 
theatre productions are examined. Major topics include the creation of a production 
book, box office management techniques and the organizational structure of theatrical 
producing organizations. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) 
Not repeatable. Local Requirement: (Activities)

TUTOR (TUTORING)

TUTOR 100—INTRODUCTION TO GENERAL TUTORING  1 UNIT  
18 Lecture Hours  
Formerly listed as: TUTOR 50: Tutor Training

Limitations on Enrollment: Enrollment limited to students selected as tutors for the 
Library & Learning Center.

Introductory tutoring course limited to students selected as tutors for the Learning Center. 
Designed to train students to become peer tutors. Introduces students to their role as a 
peer tutor and to the methods of effective tutoring. Cross-cultural understanding 
and working with students with diverse abilities is emphasized. Field trips are not required. 
(P/NP Only) Not repeatable. Transfer: (CSU)

TUTOR 110—INTRODUCTION TO TUTORING COMPOSITION  1 UNIT  
18 Lecture Hours  
Formerly listed as: ENGL 183: Introduction to Tutoring Composition

Prerequisite: Satisfactory completion of ENGL 101 or qualification by MJC 
assessment process.

Corequisite: Concurrent enrollment in or satisfactory completion of TUTOR 100.

Introductory course in the tutoring processes of cross-curricular composition. Students 
will learn strategies for tutoring developmental to advanced writers. Specific focus will 
be on techniques for improvement of fluency, structure, revision, proofreading, and 
reading. Intended for students selected as tutors for the Library & Learning Center’s 
Writing Center. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU)

TUTOR 115—TUTORING FOR ELIC/ELW STUDENTS  1 UNIT  
18 Lecture Hours  
Prerequisite: Satisfactory completion of ENGL 101.

Corequisite: Concurrent enrollment in or satisfactory completion of TUTOR 100.

Designed to train students to become effective peer tutors specifically for speakers of 
English as a second or other language. Expands the role of peer tutors to include specific 
methods of effectively supporting ELIC/ELW students. Understanding cross-cultural 
differences, inter-language challenges and basic English grammatical topics are 
emphasized. Field trips are not required. Not repeatable. (P/NP Only) Transfer: (CSU)

TUTOR (TUTORING NON-CREDIT)

TUTOR 850—SUPERVISED TUTORING  1 UNIT  
80 Lab Hours  
Provides individual learning opportunities for students with expressed needs. Includes 
study strategies, learning modes, and developmental materials. All learning experiences 
will be under instructional supervision. Four completions allowed. Field trips are not 
required. (Non-Graded course) Lab.

361
WELD 200—ARC & GAS WELDING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Introduction level course with a lecture/lab format of instruction. Activities and topics include oxyacetyleylene welding/cutting and shielded metal arc welding processes. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC WT 121)

WELD 204—GAS METAL ARC WELDING 3 UNITS
(G.M.A.W) & FLUX CORE ARC WELDING (F.C.A.W)
36 Lecture Hours, 54 Lab Hours
Formerly listed as WELD 204—Gas Metal Arc (MIG) Flux Core Arc (FCAW)
Prerequisite: Satisfactory completion of WELD 200.
Advanced occupational welding procedures for ferrous and non-ferrous metals, manual and automated oxyfuel cutting, carbon arc gouging. Includes the introduction of qualification testing procedures that meet the American Welding Society's structural steel code (D1-1) certification. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC WT 122)

WELD 206—GAS TUNGSTEN ARC WELDING (G.T.A.W.) 3 UNITS
36 Lecture Hours, 54 Lab Hours
Formerly listed as WELD 206—Gas Tungsten Arc Welding (TIG)
Prerequisite: Satisfactory completion of WELD 200.
Advanced occupational course covering welding procedures for ferrous and nonferrous sheet-metals and purge welding procedures for stainless steel tubing. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable. Transfer: (CSU) (CC WT 123)

WELD 300—INTERMEDIATE WELDING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of WELD 200.
Intermediate level course that uses a lecture/lab format of instruction. Activities and topics cover the welding procedures for mild steel plate, manual and automated oxyfuel cutting, and carbon arc gouging. Qualification testing procedures that meet the American Welding Society's structural code (D1-1) will also be covered. Materials fee required. Field trips might be required. (A-F or P/NP) Not repeatable.

WELD 325—DESIGN AND FABRICATION PROCESSES 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of WELD 204.
Theory of drawing to include techniques of sketching out ideas through the development of layout of final blueprints. Estimating cost including the selection of appropriate materials and fabrication processes. Projects are required. Field trips might be required. (A-F Only) Not repeatable.

WELD 340—PIPE WELDING 3 UNITS
36 Lecture Hours, 54 Lab Hours
Prerequisite: Satisfactory completion of WELD 300.
This course offers instruction (both lecture and laboratory) in mild steel pipe welding using the SMAW process. Activities and topics will include general pipe fitting, welding procedures, electrodes, applied layout, and fit-up, hangers, equipment, techniques. Practice in the certification procedure for the American Petroleum Institute (API 1104) code will also be covered. Materials fee required. Field trips are required. (A-F or P/NP) Not repeatable.

WKFSK (WORKFORCE SKILLS)

WKFSK 810—SKILLS TO SUCCEED AT A NEW JOB 0 UNITS
18 Lecture Hours
Intended for those re-entering the workforce, or just starting to work, and looking for skills to achieve success as a new employee. Explores in depth job retention skills including job transition concepts, employer expectations, customer service, attitude, feedback and balancing work and personal life. Course is repeatable. Field trips might be required. (Non-Graded course)

ZOOL (ZOOLOGY)

ZOOL 101—GENERAL ZOOLOGY 4 UNITS
36 Lecture Hours, 108 Lab Hours
Prerequisite: BIO 101
Student Rights and Responsibilities

STUDENT RIGHTS

THE RIGHT TO PETITION FOR SPECIFIC CONSIDERATION •

A student may petition for issues related to specific courses (i.e. grade correction, course repeat, and withdrawal according to Title 5 regulations). Issues that relate to missed deadlines and graduation requirements are not petitionable. Petitions are reviewed by the Director of Admissions & Records and in some instances forwarded to the MJC Petitions Committee for further review. Petitions are available in the Enrollment Services Office, located on the first floor of the Student Services Building, East Campus or by visiting our website [http://www.mjc.edu/studentservices/enrollment/petitions.php](http://www.mjc.edu/studentservices/enrollment/petitions.php). All petition notifications will be delivered through MJC student email. Petition Appeals must be submitted within 30 days of denial notification in order to be considered. Contact the Enrollment Services Office for additional information. Please note: Effective fall 2016, “No-Show” Verifications are no longer accepted.

THE RIGHT TO CHALLENGE A PREREQUISITE •

Any student may challenge a prerequisite on the grounds that (1) it was not established in accordance with the District’s policy; (2) it is in violation of Title 5; (3) it is discriminatory; (4) student can succeed even though student has not completed the prerequisite; or (5) student will be subject to undue delay because the prerequisite has not been made reasonably available. To challenge a prerequisite, the student must complete a Prerequisite Challenge Form (available in the division office for the discipline of the course to be challenged) and state the basis for the challenge. A committee from the division in which the class is offered will review each petition and render a decision within five working days. It is the responsibility of the student to provide information that supports the challenge.
STUDENTS RIGHTS AND RESPONSIBILITIES

STUDENT COMPLAINTS

Students who have general complaints regarding Modesto Junior College may follow the established complaint process. The student may visit the link below to access the complaint form and additional information about the process.

mjc.edu/studentservices/complaints

STUDENT RESPONSIBILITIES

ENROLLMENT RESPONSIBILITIES •

Modesto Junior College strives to make students aware of the varied educational programs that it offers and to provide smooth access to these programs. Once enrolled, the college provides many services to ensure success. Each student is required to:

■ Express at least a broad educational intent upon admission (educational goal and educational program)
■ Declare a specific educational goal by the time 15 units are earned
■ Participate in assessment, orientation, counseling and advising prior to registration
■ Complete an educational plan with a counselor in the semester following the completion of 15 units
■ Diligently attend class
■ Complete assigned work
■ Abide by the Student Code of Conduct
■ Read and obey all published college rules and regulations
■ Officially enroll in every class before the "add" deadline date and pay all fees within 24 hours of enrollment
■ Complete courses and maintain progress toward an educational goal according to standards established by the college
■ Inform the Admissions and Records Office of changes in personal data (name, mailing address, email address, phone number(s), major goal, educational status, etc.)
■ Enroll in each class
■ Complete each class or withdraw officially
■ Submit legal, not fraudulent documents

ATTENDANCE •

All students enrolled at Modesto Junior College are expected to be punctual and attend classes regularly. Instructors are encouraged to announce to their students their policies regarding excessive absences or tardiness at the beginning of the semester. When an instructor determines that a student’s absences are excessive, the instructor may drop the student from the class. It is the student’s responsibility to discuss anticipated and/or extensive absences with the instructor. No absence relieves the student of the responsibility of completing all work assigned. Any student who fails to attend class regularly may be dropped; however, it is the responsibility of the student to complete the course or to officially withdraw from a class. Tardiness may be treated as an absence.

ACADEMIC FREEDOM •

Students have the right to listen, the right to decide, the right to choose, the right to reject and the right to express and defend individual beliefs. As members of the MJC community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth.

The educational purpose of the college is best served by this freedom of expression. Students are free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Student performance will be evaluated on a broad academic basis, not on opinions or conduct in matters unrelated to academic standards.
Academic Integrity

The Academic Senate at MJC shares the original jurisdiction for conduct violations in the area of academic integrity. The Academic Senate at MJC has defined academic integrity and identified possible means for maintaining academic integrity at the College.

THE FOLLOWING ARE VIOLATIONS OF ACADEMIC INTEGRITY:

- **Cheating**: Intentionally using or attempting to use unauthorized materials, information or study aids in any academic exercise; misrepresenting or non-reporting of pertinent information in all forms of work submitted for credit.
- **Facilitating Academic Dishonesty**: Intentionally or knowingly helping, or attempting to help, another to violate a provision of the institutional code of academic integrity.
- **Plagiarism**: The deliberate adoption or reproduction of ideas, words or statements of another person as one’s own, without acknowledgement. This includes all group work and written assignments.

VIOLATIONS OF ACADEMIC INTEGRITY

The grading of a student’s work rests on the fundamental idea that an instructor is evaluating a student’s own work, so cheating or plagiarism demonstrates a failure to complete this most basic requirement of any course. Thus a faculty member may administer academic consequences for violating the Academic Integrity Policy ranging from partial credit to an F on the assignment or exam.

The instructor may also consider that a student’s violation of academic integrity should be a consideration for disciplinary measures. Disciplinary action for violating academic integrity is administered by the Student Discipline Officer under Board Policy 5500: Standards of Conduct.

ACADEMIC INTEGRITY IN COURSES

Academic areas may develop for their faculty and students a statement of the application of the Academic Integrity Procedure in their courses; and each faculty member is encouraged to include in his/her introduction to a course:

- A statement of the application of the Academic Integrity Procedure within his/her course.
- A statement notifying students that violations of the Academic Integrity Procedure will be reported.

DUE PROCESS FOR VIOLATIONS OF ACADEMIC INTEGRITY

1. **Students shall be given notice of the violation and,**
2. **Students shall be given an opportunity to respond to the allegations.**

MJC Academic Senate, Spring 2007
STUDENTS RIGHTS AND RESPONSIBILITIES

Code of Conduct

Modesto Junior College under Yosemite Community College District Board Policy and Procedure 5500, Standards of Conduct has specified standards of student behavior which it considers essential to its educational mission and its campus life. These regulations are designed to represent reasonable standards of conduct. The Student Code of Conduct governs the behavior of students on campus and at facilities controlled by the district or college, and at college-sponsored activities. Violations of the codes may subject individuals to disciplinary action, which is consistent with the requirements of due process. The following student conduct violation(s) conduct will constitute good cause for disciplinary action:

CONDUCT VIOLATIONS INCLUDE:

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from an appropriate District employee, which is concurred in by the college president or designee.
3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code, Section 11014.5.
4. Committing or attempting to commit robbery or extortion.
5. Causing or attempting to cause damage to District property or to private property on campus.
6. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen district property or private property on campus.
7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or the District.
8. Committing sexual harassment as defined by law or by District policies and procedures.
9. Engaging in harassing or discriminatory behavior based on race, religion, creed, color, national origin, ancestry, disability, sex (i.e. gender), marital status or sexual orientation or any other status protected by law.
10. Willful misconduct which results in injury or death to a student or to college personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
13. Dishonesty; forgery; alteration or misuse of college documents, records or identification; or knowingly furnishing false information to the district.
14. Unauthorized entry upon or use of college facilities.
15. Lewd, indecent or obscene conduct on district-owned or controlled property, or at district-sponsored or supervised functions.
16. Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises; or the violation of lawful district administrative procedures; or the substantial disruption of the orderly operation of the District.
17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
18. Obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other college activities, including its public service functions, or any other authorized activities. Pagers, cellular telephones and other similar electronic devices must be turned off in classrooms and other campus sponsored events unless authorized by an appropriate faculty or staff member.
## Disciplinary Actions Resulting From Conduct Violations

Violators of the Student Code of Conduct are subject to the following types of disciplinary action, which will be administered by appropriate College personnel:

<table>
<thead>
<tr>
<th>DISCIPLINARY ACTION</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informal Reprimand:</td>
<td>An oral admonition or warning to cease and desist from conduct that has been determined to violate the standards of conduct.</td>
</tr>
<tr>
<td>Formal Reprimand:</td>
<td>Written admonition or warning to cease and desist from conduct that has been determined to violate the standards of conduct.</td>
</tr>
<tr>
<td>Removal from Class:</td>
<td>The involuntary removal of a student from class by an Instructor for a maximum period of two consecutive class sessions.</td>
</tr>
<tr>
<td>Removal from Facility:</td>
<td>The involuntary removal of a student by an administrator from a District or College facility, or facility under the control of the District or College for a maximum period of two consecutive days.</td>
</tr>
<tr>
<td>Loss of Privileges:</td>
<td>Disciplinary action involving the loss of certain student privileges, such as eligibility to participate in extracurricular activities, for a stated period of time.</td>
</tr>
<tr>
<td>Disciplinary Probation:</td>
<td>A status between good standing and suspension or expulsion. It covers a stated trial period and disciplinary conditions required of the Yosemite Community College District.</td>
</tr>
<tr>
<td>Disciplinary Suspension:</td>
<td>The involuntary removal of a student for good cause from one or more classes or from the college by action of the Student Discipline Officer for a limited period of time, as follows:</td>
</tr>
<tr>
<td>Short-Term Suspension:</td>
<td>Removal from one or more classes for a period of up to 10 consecutive days of instruction;</td>
</tr>
<tr>
<td>Long-Term Suspension:</td>
<td>Removal from one or more classes for the remainder of the academic term; Removal from one or more classes for one or more academic terms; or Removal from all classes and activities of the College for one or more academic terms.</td>
</tr>
<tr>
<td>Immediate Interim Suspension:</td>
<td>The Student Discipline Officer may order the immediate suspension of a student where there is reasonable cause to believe that immediate suspension is required to protect lives or property and to ensure the maintenance of order.</td>
</tr>
<tr>
<td>Expulsion:</td>
<td>A student may be expelled for good cause where other means of correction have failed to bring about proper conduct or when the presence of the student causes a continuing danger to the physical safety of students or others. Only the Board of Trustees may expel a student.</td>
</tr>
</tbody>
</table>

The Standards of Conduct Policy and Procedures are available at: [https://www.yosemite.edu/trustees/boardpolicy](https://www.yosemite.edu/trustees/boardpolicy)
STUDENTS RIGHTS AND RESPONSIBILITIES

Illegal Distribution of Copyrighted Material

Modesto Junior College students are prohibited from using the Yosemite Community College District (YCCD) information network to illegally download or share music, video and all other copyrighted intellectual property. Modesto Junior College supports the Higher Education Opportunity Act and Digital Millennium Copyright Act, including efforts to eliminate the illegal distribution of copyrighted material. Under the law, college administrators may be obligated to provide copyright holders with information about users of the YCCD information network who have violated the law. Be aware that illegal forms of downloading and file sharing as well as the unauthorized distribution of copyrighted materials are violations of the law and may subject you to academic sanctions from the college as well as criminal and civil penalties, including a lawsuit against you by the Recording Industry Association of America (RIAA). In addition to being illegal, file sharing drains the YCCD network’s bandwidth, which slows computer connections for students and employees who are using the network for legitimate academic purposes and ultimately costs the college money. The illegal downloading and sharing of music or other copyrighted intellectual property is a form of theft and is prohibited under the Student Code of Conduct. Additional information is available at [www.riaa.com](http://www.riaa.com) (teacher/student information). There are plenty of easy, affordable ways to get music online legally. To protect their intellectual property, companies have licensed hundreds of digital partners that offer a range of legal downloading options, including download and subscription services, legitimate peer-to-peer services, video-on-demand, podcasts and CD kiosks. For a list of sources that offer legal downloading sites, access [www.riaa.com](http://www.riaa.com).

SEXUAL HARASSMENT POLICY

Sexual harassment is a form of unlawful sexual discrimination and will not be tolerated by the College.

SEXUAL HARASSMENT INCLUDES:

- submission to conduct which is explicitly or implicitly made a term or a condition of an individual’s employment, academic status, or progress;
- submission to, or rejection of, conduct by an individual which is used as the basis of an employment or academic decision affecting the individual or has the purpose or effect of having a negative impact upon the individual’s work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment; and
- submission to or rejection of, conduct by the individual which is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the educational institution. (Education Code Section 212.5.)

The College strongly forbids any form of sexual harassment, including acts of nonemployees. Disciplinary action will be taken promptly against any student or employee, supervisory or otherwise, engaging in sexual harassment.
Discrimination Terms

<table>
<thead>
<tr>
<th>TERM:</th>
<th>DEFINITION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color or Ethnic Group Identification</td>
<td>means the possession of the racial, cultural, or linguistic characteristics common to a racial, cultural, or ethnic group or the country or ethnic group from which a person or his or her forbears originated. (22 California Administrative Code Section 98210(b).)</td>
</tr>
<tr>
<td>Religion</td>
<td>includes all aspects of religious observance, practice and belief, including duties of the clergy or elders. A belief is religious if sincerely held and, in the scheme of the believer, holds a place analogous to that filled by the deity of those people whose religion may be more orthodox or more widely accepted. (22 California Administrative Code Section 98220.)</td>
</tr>
<tr>
<td>Age</td>
<td>means how old a person is, or the number of elapsed years from the date of a person’s birth. (22 California Administrative Code Section 98230(b).)</td>
</tr>
<tr>
<td>Sex Discrimination</td>
<td></td>
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<tr>
<td>■ includes any rule, policy, or practice concerning actual or potential parental, family, or marital status which differentiates on the basis of sex or sexual orientation;</td>
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</tr>
<tr>
<td>■ any rule, policy, or practice concerning disability due to pregnancy, childbirth, recovery from childbirth or termination of pregnancy, or other psychological conditions related to the capacity to bear children not applied under the same terms and conditions and in the same manner as any other rule, policy, or practice relating to any other temporary disability except as otherwise provided by the Fair Employment Practice Act;</td>
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<tr>
<td>■ any rule, policy, or practice which treats men and women differently for purposes of any program or activity on the basis of aggregate statistical characteristics of men or women, whether founded in fact, belief or statistical probability;</td>
<td></td>
</tr>
<tr>
<td>■ any rule, policy, practice, or incident which conditions the receipt of any benefit upon entering into, or maintaining, a sexual relationship or participation in sexual activity, or subjects a person to sexual harassment or intimidation such as unwelcome sexual advances, requests for sexual favors or other verbal or physical conduct of a sexual nature. (22 California Administrative Code Sections 98240, 98242, 98244.)</td>
<td></td>
</tr>
<tr>
<td>Sexual Orientation</td>
<td>means a private preference of an individual for heterosexuality, homosexuality, or bisexuality; or a history of such a preference; or an identification with having such a preference.</td>
</tr>
<tr>
<td>Physical or Mental Disability</td>
<td>means any physical or mental impairment which substantially limits one or more major life activities.</td>
</tr>
<tr>
<td>Disabled Person</td>
<td>means any person who has a physical or mental impairment which substantially limits one or more major life activities, has a record of such an impairment, or is regarded as having such an impairment.</td>
</tr>
</tbody>
</table>

TO FILE A DISCRIMINATION COMPLAINT

In the pursuit of academic studies and other college-sponsored activities that promote intellectual growth and personal development, the student should be free of unlawful discrimination or sexual harassment by any member of the academic community. (Students disturbed by the acts of another student have recourse through the Standards of Conduct.)

Modesto Junior College ensures that its programs and activities, including employment, are available to all qualified persons without regard to ethnic group identification, religion, age, sex, gender, sexual orientation, color, or physical or mental disability.
Complaints may be initiated by a student against an instructor, an administrator, or a member of the classified staff. **When a student feels he/she has suffered unlawful discrimination, he/she shall within one year of the occurrence of the incident(s) meet with the Vice President of Student Services.**

Students are advised to obtain written instructions for the filing of a complaint from the office of the Vice President of Student Services. You may also contact the Americans with Disabilities Act (ADA) Coordinator, (209) 575-6702 (voice) or (209) 575-6863 (TTY).

Para más información respecto a las leyes federales y regulaciones tocantes a la prohibición de discriminación en la educación, o el cumplimiento de este Distrito con dichas leyes y regulaciones, comuníquese al:

**Office of Civil Rights**
Old Federal Building
50 United Nations Plaza, Room 239
San Francisco, CA 94102

**NONDISCRIMINATION COMPLIANCE INFORMATION**
Inquiries regarding federal laws and regulations concerning nondiscrimination in education or the District's compliance with those provisions may also be directed to the agencies below.

Para más información respecto a las leyes federales y regulaciones tocantes a la prohibición de discriminación en la educación, o el cumplimiento de este Distrito con dichas leyes, regulaciones, políticas y procedimientos, comuníquese al:

**Office for Civil Rights**
San Francisco Office
U.S. Department of Education
50 Beale Street, Suite 7200
San Francisco, CA 94105
(415) 486-5555

**Department of Fair Employment and Housing**
Headquarters
2218 Kausen Drive, Suite 100
Elk Grove, CA 95758
(916) 478-7521

**California Community Colleges**
Chancellor's Office
1102 “Q” Street, 4th Floor
Sacramento, CA 95811
(916) 445-8752
Complaints Process & Form

◆
FACULTY AND CERTIFICATED ADMINISTRATORS  (Date of appointment follows name.)

Adams, Austin (2016)  
Applied Mathematics  
B.S., California State University, Long Beach  
M.S., California State University, Long Beach

Adams, Barbara (2005)  
Communication Studies  
B.A. California State University, Stanislaus  
M.A., California State University, Fullerton

Adams, Michael (1998)  
Mathematics  
B.S., M.S., University of California, Irvine

Adkins, Tania (2009)  
Nursing  
B.S., Humboldt State University  
M.S., University of California, San Francisco

Akard, Michael (2001)  
English Language  
A.A., Modesto Junior College  
B.A., M.A., California State University, Fresno

Akers-Porter, Tina (2015)  
Mathematics  
B.A., California State University, Stanislaus  
M.S., University of California, San Francisco

Akiona, Shelley (2014)  
Business  
B.S., Business Management, University of Phoenix, Sacramento Campus  
M.S., Human Resource Development, Drexel University, Sacramento Campus

Akpovu, Joseph (2015)  
Logistics, Supply Chain Management  
B.A., Universite Nationale du Benin  
M.B.A., California State University, Stanislaus

Alavezos, Kevin (2004)  
Office Administration  
A.A., Reedley College  
B.S., B.M.A., California State University, Stanislaus

Alcantra, Daniel (1988)  
Mathematics  
A.A., Porterville College  
B.A., M.A., California State University, Fresno

Alt, Albert G. (2014)  
Vice President of College and Administrative Services  
B.S. San Jose State University  
M.B.A, California State University, Chico  
Ed.D, Drexel University

Amador, Steve (2004)  
Agriculture  
B.S., M.S. California Polytechnic State University

Anders, Bruce (2008)  
English  
B.A., University of California, Santa Barbara  
M.A., California State University, Sonoma

Anelli, Bill (2005)  
Philosophy  
B.A., University of California, Berkeley  
M.A., San Francisco State

Arias, Flerida (2015)  
Dean, Equity and Student Learning  
B.A, UC Davis  
M.Ed., Mills College

Aristotelous, Steve (2005)  
Women’s Soccer Coach  
Physical Education & Health Instructor  
B.S., St. Mary’s College  
M.S., U.S. Sports Academy

Backlund, Nancy (1998)  
Office Administration  
B.A., California State University, Chico  
M.B.A., California State University, Stanislaus

Bailey, Kimberly (2000)  
Counselor  
A.A., Merced College  
B.A., M.S., P.P.S. Credential, California State University, Stanislaus

Bahuelos, Francisco (2001)  
Dean of Enrollment Services, Special Programs & Student Learning  
B.A., M.P.A., California State University, Stanislaus

Barr, Deborah (2004)  
Art  
A.A., Las Positas Community College  
B.A., Mills College  
M.F.A., San Jose State

Beebe, Jeffrey (2008)  
Autobody/Collision

Beggs, James (1991)  
English  
B.A., University of Georgia  
M.A., Clemson University  
Ph.D., University of Tennessee

Bento, Nathan (2014)  
English  
B.A., University of Hawaii, Hilo  
M.A., California State University Stanislaus  
M.A., CSU Chico

Berger, Paul (2005)  
Art  
B.F.A., University of Minnesota, Duluth  
M.F.A., San Diego State University

Berger, Sara (2009)  
English Language  
B.A., University of California, Berkeley  
M.A., California State University, Sacramento

Berru, Melanie (2014)  
Sociology  
B.A., California State University, Stanislaus  
M.A., Humboldt State University

Bettencourt, Patrick J. (2009)  
Dean, Allied Health and Family and Consumer Sciences  
Dean, Physical, Recreation & Health Education  
B.A., M.A., California State University, Fresno

Black, Shawn (2005)  
PE/Tennis Coach  
A.A., Modesto Junior College  
B.S., M.A., California State University, Fresno

Boley, David B. (1989)  
Mathematics  
B.A., Sonoma State University, M.S., University of Idaho

Anthropology  
M.A., UC Riverside  
B.A., M.A., Ph.D., University of California, Santa Cruz

Dean of Advancement & Executive Director, Modesto Junior College Foundation  
B.A., University of California, Berkeley  
M.P.A., Ed.D., California State University, Stanislaus

Borelli, Lynette (2008)  
Theatre Arts  
B.A., San Francisco State University  
M.A., Humboldt State University
Borges, Donald (2015)  
Dean, Agriculture & Environmental Sciences  
A.S., Modesto Junior College  
M.S., B.S. Cal Poly State University, San Luis Obispo

Boyd, Marlies (1992)  
Agriculture  
B.S., M.Ed., University of California, Davis

Brayton, Zeb (2016)  
Physical Education  
A.A., San Joaquin Delta College  
B.A., California State University, Stanislaus  
C.T.C., National University  
M.S., National University

Briggs, Christopher (2005)  
Reading  
B.A., Johns Hopkins University  
M.A., Johns Hopkins University

Brogan, Paul (2001)  
Physical Education Coach  
B.A., M.A., California State University, Stanislaus

Brunn, Sandy (2004)  
Nursing  
B.S.N, Medical College of Virginia  
M.S. & P.N.P., University of California, San Francisco

Nursing  
A.D.N., Chabot College  
B.S.N., California State University, Stanislaus  
M.S.N., California State University, Sacramento

Buzbee, Shirley (1994)  
Medical Assisting  
A.A., Modesto Junior College  
B.S., University of San Francisco  
M.A., Chapman University

Caddell, Joseph (2005)  
Chemistry  
B.S., California State University, Stanislaus  
J.D., Golden Gate University  
Ph.D. University of California, Davis

Psychology/Human Sexuality  
B.S., Cal Poly State University, San Luis Obispo  
M.A., Ph.D., University of California, Los Angeles

Carroll, Iris (2000)  
Library  
B.A., Emory University  
M.L.S., University of North Texas

Carter, Florine (2001)  
Humanities  
B.A., M.A, George Washington University  
M.A., California State University, Stanislaus

Cassidy, Susan (2015)  
Library  
B.A., University of California, Santa Barbara  
M.L.S., University of Oregon  
M.A., California State University, Stanislaus

Cavazos, Leticia (2000)  
Counseling  
A.S., Modesto Junior College  
B.S., University of San Francisco  
M.A., Chapman University

Champa, Viengkham (Vie) (2016)  
Counseling  
B.A., University of California, Davis  
M.S., University of La Verne

Chapman, David (2001)  
Music  
B.A., Sacramento State University  
M.A., San Francisco Conservatory of Music

Chase, Daniel (2015)  
Physics  
B.S., State University of New York College, Plattsburgh  
M.S., California State University, Fresno

Choi, Stephen (2014)  
Administration of Justice  
B.A., Chapman University  
J.D., Humphreys College

Cipponeri, Charles J. (2000)  
Disability Specialist/Counselor  
B.A., San Francisco State University  
M.S., San Diego State University  
LEP, Licensed Educational Psychologist

Circle, Shelley (2001)  
English  
A.A., American River College  
B.A., M.A., Sacramento State University

Coats, Gloria (1993)  
Nursing  
B.S.N., California State University, Stanislaus  
M.S.N., California State University, Dominguez Hills

Collins, Leslie (2009)  
Communication Studies  
B.A., M.A., California State University, Fresno

Conrado, Todd (2005)  
Agriculture  
B.S., M.A., Cal Poly State University, SLO

Contreras, Marcos A. (1991)  
Spanish  
B.A., M.A., San Diego State University  
M.A., University of California, San Diego  
Ph.D., University of California, Santa Barbara

Coulson, Chelsea (2015)  
Medical Assisting  
B.S., University of Phoenix

Cripe, Paul (2002)  
Mathematics  
B.S., Wheaton College, Illinois  
M.S., California State University, Hayward

Cripe, Ron (2014)  
Director, MJC Regional Fire Training Center  
A.S., Modesto Junior College  
B.S., Columbia Southern University

Crittenden, Pamela (1990)  
Counselor  
B.A., University of California, Berkeley  
M.S., San Francisco State University

Curl, Sarah J. (1991)  
Mathematics  
B.S., M.A., University of Texas

Curtis, Teri (1995)  
Biology  
A.A., Modesto Junior College  
B.A., California State University, Fresno  
M.S., University of the Pacific

Daly, Jillian K. (1998)  
Dean, Literature and Language Arts & Library and Learning Resources  
B.A., University of California, Berkeley  
B.A., M.A., University of California, Irvine

David, Elizabeth (2010)  
Counselor/Coordinator, Title V  
B.A., M.A., San Jose State University
Davis, Kim
Dance
B.A., University of California, Santa Barbara, Dance
M.A., Cal State Long Beach, Dance

DeAngelis, Adrian (2005)
Industrial Electronics
T.S.E.D.C.A., O.R.T. Institute of Technology, Buenos Aires, Argentina

DeFreitas, Laura (2014)
Nursing
A.S., Nursing, Modesto Junior College
B.S., Nursing, University of Phoenix
M.S., Nursing Education, CSU, Stanislaus

DeRollo, Jamie (2016)
Athletic Training
Physical, Recreation & Health Education
A.A., General Education, Modesto Junior College
A.S., Sports Medicine, Modesto Junior College
B.S., Kinesiology-Sports Medicine, California State University, Fresno
M.B.A., Healthcare Administration, South University
D.A.T. Student, Temple University 2018 co-hort

Dhaliwal, Gagandeep (2015)
Chemistry
B.S. University of California, Davis
M.S. California State University, Fullerton

Dhillon, Hardev (1996)
Mathematics
A.S., Yuba College
B.A., M.A., Sacramento State University

Dow, David (2014)
A.A., Modesto Junior College
B.A., University of California Santa Barbara
M.A., San Jose State University
Certificate, Massachusetts Institute of Technology

Droual, Robert (1998)
Anatomy, Physiology
B.A., Queens College, New York
M.A., Fresno State University
Ph.D., City University of New York
D.V.M., Purdue University

Duffy, Amy (2013)
A.S., Long Beach City College
B.S.B.M., Western Governors University
C.M.A., American Association of Medical Assistants

Duchscher, Lawrence Thomas (1988)
Art
A.A., Modesto Junior College
B.A., M.A., California State University, Chico
M.F.A., University of Washington

Ennis, Kathleen (1999)
Library
B.A., California State University, Stanislaus
M.A., University College, Dublin
M.L.S., San Jose State University

Estrada, Martha (2016)
Counselor
A.A. Modesto Junior College
B.A. California State University Stanislaus
M.A. University of San Francisco

Fantazia, Janet (2015)
Respiratory Care
B.S.H.S., TUI University, Cypress California
M.H.S., Trident University, Cypress California

Faris, Jacqueline (2000)
Mathematics
A.A., Modesto Junior College
B.S., California State University, Stanislaus
M.S., University of California, Davis

Fichtenkort, Shelly (2000)
Psychology
B.A., M.A., California State University, Stanislaus
Ph.D. University of California, San Diego

Fischer, Eric (2005)
PE/Water Polo & Swim Coach
A.A., Modesto Junior College
B.A., California State University, Fresno
M.S.S., U.S. Sports Academy

Ganes, Rebecca L. (1991)
Psychology
B.A., M.A., California State University, Stanislaus

Garcia, Alida (2000)
Counselor
A.A., Modesto Junior College
B.S., University of San Francisco
M.A., Chapman University

Garcia, Marcos C. (1991)
Counselor
A.A., Allan Hancock College
B.A., California State University, Stanislaus
P.P.S. Credential, San Jose State University
M.A., San Jose State University

Gilbert, Deborah (2005)
English
B.A., University of California, Berkeley
M.A., California State University, San Francisco
Ph.D., Stony Brook University, New York

Girardi, Michael (2005)
Health, Physical Education
Coach, Women’s Basketball
A.A., Merced College
B.A., Rice University
M.S., University of Kansas

Giron, Tina (2009)
Counselor
A.A., Modesto Junior College
B.A., Chapman University
P.P.S., Credential, M.A., CSU, Stanislaus

Gonzalez, Ariana (2016)
Counselor
A.A., San Joaquin Delta College
B.A., University of California, Davis
M.A., California State University, Stanislaus

Gopal, Nita (2004)
English
B.A., Mangalore University, India
M.A., San Jose State University

Gravatt, Troy (2014)
General Agriculture
A.S., Modesto Junior College
B.S., M.S., Cal Poly State University, San Luis Obispo

Greene, Catherine (2001)
Biology
B.S., M.S., San Jose State University

Guy, Ryan (2014)
Director of Forensics/Communication Studies
A.A., Riverside Community College
B.A., Humboldt State University
M.A., California State University, Chico

Guy, Todd G. (1992)
Communication Studies, Director of Forensics
A.A., Diablo Valley College
B.A., California State University, Long Beach
M.A., San Francisco State University

Gyuran, Kimberly (1994)
Communication Studies
B.S., Central Michigan University
M.A., Wayne State University
FACULTY AND CERTIFICATED ADMINISTRATORS

Hamilton, Jennifer (2008)
Vice President of Instruction
B.S., Cascade College, Portland
MLitt, Ph.D., University of Aberdeen, Scotland, UK

Hanlon, Dana (2005)
Counselor
B.A. University of California, Davis
M.A., Sonoma State University

Hassell, Tristin (2016)
Philosophy
B.A., University of Michigan, Flint
B.A., University of Michigan, Flint
MSc (view to PhD), University of Edinburgh
PhD, University of Edinburgh

Hausler-Akpovi, Annaliese (2000)
English
B.A., University of California, Berkeley
M.A., San Francisco State University

Hausmann, Gregory A. (2000)
Administration of Justice
CA P.O.S.T. Certified
A.A., Merced College
B.S., University of San Francisco
M.S., California State University, Long Beach

Hayes, Sarah (1988)
Geology
B.A., Trinity Western University
M.A., California State University, Stanislaus

Hobert, Timothy K. (1997)
English
B.A., M.A., University of the Pacific

Howard, Chandra (2016)
English
B.A. in English, San Diego State University
MA in English, San Diego State University
ABD in English, University of California, Riverside

Howard, James (2001)
Industrial Electronics
B.A., Cal Poly State University, San Luis Obispo

Hudelson, Cecelia (1997)
Geography
A.A., Modesto Junior College
B.A., University of California, Davis
Single Subject Credential, University of the Pacific
MSc, London School of Economics

Hughes, Noah (1995)
Earth Science
B.S., University of Colorado
M.S., University of Montana

Hulsey, Suzanne (2009)
Chemistry
B.S., Adams State College
M.S., Northern Arizona University

Hunt, Bonnie (2009)
Respiratory Care
A.S., Loma Linda University
B.S., California State University, Sacramento
M.P.A., California State University, Stanislaus

Hutchison, Bobby L. (1997)
Psychology
B.A., University of California, Santa Barbara
M.A., Sam Houston State University, Texas
M.S., Clemson University

Isho, Nadia (2016)
Computer Science
A.A., Modesto Junior College
B.S., California State University, Stanislaus
M.B.A., California State University, Stanislaus

Ivory, Eric Anthony (1997)
Counselor
A.A., College of Alameda
B.A., M.S., California State University, East Bay

Kerr, Eileen (2008)
History
B.A., California State University, Stanislaus
M.A., California State University, Sacramento
M.A., Yale University

Kerr, Susan (2000)
Anthropology
B.S., University of California, Davis
M.A., Ph.D., University of California, Santa Barbara

Psychology
A.A., Modesto Junior College
B.A., M.A., M.F.T., CSU, Stanislaus

Kropp, Jon (2000)
Industrial Technology
B.S., California State University Chico

Accounting, Business
B.S., San Francisco State University
M.B.A., California State University, Stanislaus

Accounting, Business
B.S., San Francisco State University
M.B.A., California State University, Stanislaus

Accounting, Business
B.S., San Francisco State University
M.B.A., California State University, Stanislaus

Laffranchini, Deborah (2001)
Child Development
B.A., Humboldt State University
M.A., San Francisco State University

Louie, Donna (2005)
EOPS Counselor
A.A., San Joaquin Delta College
B.S., M.S., California State University, Sacramento

Louie, Hanna (1999)
Counselor
A.A., San Joaquin Delta College
B.A., California State University, Stanislaus
M.S., California State University, Sacramento

Lucas, Eryn (2009)
Microbiology, Biology
B.S., Ph.D., University of Arizona

Luman, Ruth (1999)
English Language
B.A., M.A., TESOL Certificate, Biola University
M.A., California State University, Stanislaus

M.A., Sonoma State University

Kranzman, Andrew (2015)
English
B.A., M.A., University of California, Riverside

Hollar, Melinda (2014)
Child Development
A.A., Modesto Junior College
B.A., California State University Stanislaus
M.A., Chapman University

Holland, Elizabeth (2014)
DSPS Counselor
A.A., Modesto Junior College
B.A., California State University Stanislaus
M.A., Chapman University

Hohman, Dana (2005)
Counselor
B.A. University of California, Davis
M.A., Sonoma State University

Hollens, Cecelia (1997)
Geography
A.A., Modesto Junior College
B.A., University of California, Davis
Single Subject Credential, University of the Pacific
MSc, London School of Economics

Hunt, Bonnie (2009)
Respiratory Care
A.S., Loma Linda University
B.S., California State University, Sacramento
M.P.A., California State University, Stanislaus

Hutchison, Bobby L. (1997)
Psychology
B.A., University of California, Santa Barbara
M.A., Sam Houston State University, Texas
M.S., Clemson University

Isho, Nadia (2016)
Computer Science
A.A., Modesto Junior College
B.S., California State University, Stanislaus
M.B.A., California State University, Stanislaus

Ivory, Eric Anthony (1997)
Counselor
A.A., College of Alameda
B.A., M.S., California State University, East Bay

Keriotis, Dimitri (2000)
Student Success & Support Program Counselor
B.A., University of California, Santa Cruz
M.A., University of Nevada, Reno
M.F.A., California State University, Chico

Kerr, Eileen (2008)
History
B.A., California State University, Stanislaus
M.A., California State University, Sacramento
M.A., Yale University

Kerr, Susan (2000)
Anthropology
B.S., University of California, Davis
M.A., Ph.D., University of California, Santa Barbara

Psychology
A.A., Modesto Junior College
B.A., M.A., M.F.T., CSU, Stanislaus

Kropp, Jon (2000)
Industrial Technology
B.S., California State University Chico

Accounting, Business
B.S., San Francisco State University
M.B.A., California State University, Stanislaus

Laffranchini, Deborah (2001)
Child Development
B.A., Humboldt State University
M.A., San Francisco State University

Louie, Donna (2005)
EOPS Counselor
A.A., San Joaquin Delta College
B.S., M.S., California State University, Sacramento

Louie, Hanna (1999)
Counselor
A.A., San Joaquin Delta College
B.A., California State University, Stanislaus
M.S., California State University, Sacramento

Lucas, Eryn (2009)
Microbiology, Biology
B.S., Ph.D., University of Arizona

Luman, Ruth (1999)
English Language
B.A., M.A., TESOL Certificate, Biola University
M.A., California State University, Stanislaus
Lynch, Michael (1992)
Theatre
B.A., California State University, Fresno
M.A., Northwestern University, Chicago

Madden, Derek (1990)
Biology
B.A./B.A., M.A. California State University, Fresno
Ph.D, University of South Africa

Maki, Erik (2005)
Music
B.A., California State University, Fresno
M.A. University of Illinois

Maki, Laura (1996)
Dean, Science, Mathematics, & Engineering
B.S., California State University, Fresno
Ph.D., University of California, Davis

Counselor
A.A., St. Lucy’s Priory
B.A., M.Ed., Northern Arizona University

McInnes, Elizabeth (2005)
Biology
B.S., University of LaVerne, LaVerne California
M.S., California Polytechnic University, Pomona

McKenzie, Ross John (2001)
Mathematics
B.S., Cal Poly State University, San Luis Obispo
M.A., University of California, San Diego

McKissick, Allan D. (1981)
Communication Studies
A.A., Glendale Community College
B.A., M.A. California State University, Los Angeles

Meidl, Kenneth (1997)
Physics
B.S., Cal Poly State University, San Luis Obispo
M.S., California State University, Fresno

Agriculture
A.A., Modesto Junior College
B.S., M.S. Cal Poly State University, San Luis Obispo

Mendez, Pedro (2001)
Dean of Career Technical Education & Community Education/Workforce Development
B.A., California State University, Stanislaus
M.A., George Washington University

Meyer, Heidi (2009)
Mathematics
B.A., Calvin College
M.A., California State University, Stanislaus

Michelena, Jaymes (2001)
Mathematics
B.S., California State University, Stanislaus
M.A., Cal Poly State University, San Luis Obispo

Miller, Letitia Senechal (2016)
Articulation Officer
B.A., University of Connecticut
M.S., National University

Miller, Steven (2005)
Political Science
B.A., Haverford College
M.A., Ph.D., University of California, Berkeley

Miranda Breneres, Shirley (2016)
English
A.A. Modesto Junior College
B.A. InterAmerican University, Costa Rica
M.A. California State University, Stanislaus

Mo, Eva (1999)
History
A.A., Chabot College
B.A., University of California, Berkeley
M.A., San Francisco State University

Morales, Michael (2001)
Agriculture
A.S., Kings River College
B.S., California State University, Fresno

Motroni, Milan (2001)
Health, Adaptive Physical Education
B.A., University of California, Davis
M.A., University of the Pacific

Mulder, Cheryl (1996)
Health, Physical Education, Coach
B.A., California State University, Stanislaus
M.S., U.S. Sports Academy

Nash-Rule, Holly (2015)
Anatomy/Physiology
B.A., University of the Pacific, Stockton
Ph.D, Uniformed University of the Health Sciences
Post-doc, University of California, Davis

Netto, Jeffrey A. (1999)
English
Ph.D., University of California, Santa Barbara

Netto, Jenny Tashjian (2001)
English
B.A., University of California, Santa Barbara
M.A., California State University, Fullerton

History
A.A., Bellevue Community College
B.A., Washington State University
M.A., Ph.D., University of Idaho

Niazmand, Haleh (2005)
Art
B.A., University of South Dakota
M.F.A, University of Arizona, Tucson

Nomof, Thomas (2000)
Physics
B.A., University of California, Berkeley
M.S., San Jose State University

Olson, Kurt (2004)
Sociology
B.A., University of California, Davis
M.A., National University
MSc Sociology, Edinburgh University Scotland, UK
FACULTY AND CERTIFICATED ADMINISTRATORS

One, Optimism (2005)
English
A.A., Modesto Junior College
B.A., University of California, Berkeley
M.A., California State University, Stanislaus
M.F.A., Sierra Nevada College

Payvar, Kamran (1997)
Mathematics
B.S., Teachers Training University
M.S., California State University, Fresno

Peek, Adrienne (2005)
English
B.A., M.A., California State University, Fresno

Penn, J. Douglas (2015)
Sociology
B.A., Eastern Michigan University
M.A. Western Michigan University
Ph.D. Western Michigan University

Petersen, Yolande (2016)
Mathematics
B.S.E., M.S., University of Michigan
M.A. University of Pittsburgh

Peterson Erick (2014)
Economics
B.A., San Diego State University
M.A., San Diego State University
Ph.D., University of California -- Irvine

Peterson, John (1997)
Automotive Technology
Vocational Experience, 18 years
p/t Chabot/Las Positas 2 years

Phillips, Dale (2005)
Computer Science
A.A., Modesto Junior College
B.A., Western Illinois University
M.B.A., University of LaVerne

Pierstorff, Samuel (2000)
English/Creative Writing
A.A., Orange Coast College
B.A., M.F.A., California State University, Long Beach

Pignotti, Angela J. (2011)
Mathematics
B.A., M.S. University of Colorado, Boulder
M.S., Ph.D. University of CA, Santa Cruz

Pollard, Dale (1999)
Agriculture
A.S., Modesto Junior College
B.S., M.S., Cal Poly State University, San Luis Obispo

Ramsey, Jill D. (1999)
Nursing
A.A., Modesto Junior College
B.S., M.S., Loyola University of Chicago
M.S., University of California, San Francisco

Rasmussen, Catherine (2015)
Nursing
BSN, University of Phoenix
MSN, FNP Sonoma State University

Redwing, Chad (2005)
Humanities
B.A., Arizona State University
M.A., Ph.D., University of Chicago

Nursing
B.S.N., California State University, Stanislaus
M.S.N., California State University, Dominguez Hills

Riley, Benjamin (2016)
DPS Counselor
A.A., Mendocino College
B.S., College of Idaho
M.A., University of the Pacific
M.A., California State University, Stanislaus

Robinson, Belen (2007)
Learning Disabilities Specialist
B.A., M.S., San Diego State University
Robinson, Tonya (2015)
Nursing
BSN, MSN/Ed University of Phoenix

Robles, Martha (2002)
Dean of Counseling and Student Learning
A.S., Modesto Junior College
B.A., University of San Francisco,
M.A., California State University, Stanislaus

Rojas, Theresa (2016)
English
B.A. University of California, Berkeley
M.L.S. Eastern Michigan University
Ph.D., The Ohio State University
Postdoc. Massachusetts Institute of Technology

Roslaniec, Mary (2001)
Chemistry
Ph.D., University of California, Los Angeles
Postdoctoral Training, Los Alamos National Laboratory
Bar Ilan University, Tel Aviv

Sabre, Alejandro (1998)
Music
B.S., National University of Mexico
M.S., Carnegie Mellon University
D.M.A., Eastman School of Music, Rochester, NY

Sahlman, James (1999)
Communication Studies
A.A., Modesto Junior College
B.A., California State University, Stanislaus
M.A., University of the Pacific
Ph.D., Ohio University

Saleh, Aishah (2015)
Humanities
A.A., Modesto Junior College
B.A., University of California, Berkeley
M.A., California State University, Stanislaus

Salerno, Barbara (2014)
Business Administration
B.S., North Carolina State University
M.B.A., Pepperdine University

Scheg, Lawrence (2000)
Reading
B.A., Niagara University
M.A., Western Connecticut State College

Schmidt, Cynthia D. (1996)
Nursing
B.S., California State University, Fresno
M.S., California State University, Sacramento

Schmidt, Daniel (2014)
English
B.A., M.A., CSU, Stanislaus
Ph.D., Southern Illinois University at Carbondale

Schnoor, Amanda (2009)
Animal Science
B.S., Oregon State University

Art History
A.A., Modesto Junior College
B.A., Ph.D., UC Santa Barbara
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shimp, Taure (2015)</td>
<td>Assistant Director of Forensics/Communication Studies</td>
<td>A.A., Columbia College, B.A., California State University, Chico, M.A., California State University, Chico</td>
</tr>
<tr>
<td>Shlah, Zaid (2014)</td>
<td>English</td>
<td>B.A., University of Calgary, M.A., San Francisco State University</td>
</tr>
<tr>
<td>Sill, Nancy (2000)</td>
<td>Accounting</td>
<td>B.S., California State University, Stanislaus, Certified Public Accountant, MAOL, Chapman University</td>
</tr>
<tr>
<td>Silva, Mary (1997)</td>
<td>Study Skills</td>
<td>B. Ed., St. Patrick’s College, Dublin, Ireland, M.A., California State University, Chico, J.D., Cal Northern School of Law, Chico</td>
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Wall, Patricia (2015)
Accounting and Business Administration
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M.P.A., California State University, Stanislaus

Wedge, Brent (2015)
Computer Science
A.A., A.S., Modesto Junior College
B.A., Chapman University
M.S., University of Maryland, Baltimore County

Westrope, Theron K. (1999)
English
B.A., M.A., University of the Pacific
Ph.D., University of Louisiana at LaFayette

Williams-Jackson, Cheryl (2005)
Human Services
A.A., Hartnell College
B.A., California State University, San Jose
M.S., Capella University
Psy.D., American School of Professional Psychology

Wilson, Noah (2014)
Photography
M.F.A., San Jose State University
B.A., Humboldt State University

Wohlstadter, Jason (2005)
English
B.A., University of California, Davis
M.A., Ph.D., UC Irvine

Wray, Gerald (2006)
Automotive Technology
A.S., College of Technology, Belfast, Ireland
A.D.F.E., University of Ulster, Belfast, Ireland
M.S.Sc., The Queens University of Belfast, Ireland

Yu, Ashley (2015)
Mathematics
B.S. University of California, Davis
M.A. California State University, Sacramento

Zamora, John A. (2001)
Computer Science
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activities requirement: a course requirement of some associate degree candidates that asks students to enroll in a formally recognized "Activities" course (p. 104) with the goal of having a specific type of learning experience.

advanced standing: classification of student who has completed previous college-level coursework.

articulation: a formal, written and published agreement that identifies courses (or sequences of courses) on the MJC campus that are comparable or acceptable in lieu of specific requirements at another campus, often called the "transfer" or "target institution." Successful completion of an articulated course assures the student and the faculty that the student has taken the appropriate course, received the necessary instruction and preparation, and that similar outcomes can be assured enabling progression to the next level of instruction at the transfer institution.

assessment: tests completed by the student to help counselors and advisors determine the student's skill level in the disciplines of reading, writing, and mathematics.

associate degree: (AA, AS-T, AS) a collegiate degree granted by California Community Colleges that, in addition to coursework in the major, includes "general education" coursework across the curriculum to provide the student a broad educational experience. To learn more about degree options, read the "Planning Your Education" section starting on p. 85.

associate degrees for transfer (AA-T, AS-T) degrees designed to facilitate seamless transfer to the California State University system.

admission: the formal process of becoming a student at MJC. Separate from registration.

audit: to take a course without receiving credit, a grade, nor formal record of enrollment. Typically used in instances where a student may want to review course material of a course taken previously. Available only to those students who have met the repeat limitation on an existing course.

baccalaureate degree: formal name of the bachelor's degree.

bachelor's degree: Degree granted by four-year colleges or universities. Commonly granted as the Bachelor of Arts (B.A.) or the Bachelor of Science (B.S.), however, other types of bachelor's degrees can be granted as well.

c-ID (California Course Identification number) A common course numbering system in the State of California. A C-ID number identifies a lower-division, transferable course commonly articulated between the California Community Colleges and universities (including Universities of California, the California State Universities, as well as with many of California's independent colleges and universities).

certificates of achievement: An award in recognition of successful completion of specialized coursework in an area which is typically oriented toward gaining skills for employment in a specific vocation or trade.

class schedule: The offering of courses for a given semester.

community education classes: Fully fee-funded vocational and recreational classes that do not appear on a student's transcript and carry no credit value.

counselor: a person whose training and primary role at the college is to assist students with personal, career, vocational and educational planning and development.

corequisite: a course which must be taken in the same semester (concurrently) as another course. In some cases, taking the course prior to is acceptable.

credit (graded) course: Course for which units are granted. At MJC, any course numbered 1 through 399.

CSU-GE: Acronym for the "California State University" general education pattern required of students who plan to earn a bachelor's degree. This pattern can be used for transfer to UC or the CSU.

counselors: a type of instruction in which the student is active in the learning process as the instructor oversees activities, e.g., using a computer, experimenting with elements, using a microscope.

course requirement: a formally recognized "Activities" course (p. 104) with the goal of having a specific type of learning experience.

counselor: an instructor who assists students in developing a program of study within a major. Contact the division office of the major to connect with the appropriate advisor.

certificates of achievement: An award in recognition of successful completion of specialized coursework in an area which is typically oriented toward gaining skills for employment in a specific vocation or trade.

class schedule: The offering of courses for a given semester.

corequisite: a course which must be taken in the same semester (concurrently) as another course. In some cases, taking the course prior to is acceptable.

credit (graded) course: Course for which units are granted. At MJC, any course numbered 1 through 399.

IGETC: Acronym for the "Intersegmental General Education Transfer Curriculum" general education pattern required of students who plan to earn a bachelor's degree. This pattern can be used for transfer to UC or the CSU.

lab (course format): a type of instruction in which the student is active in the learning process as the instructor oversees activities, e.g., using a computer, experimenting with elements, using a microscope.

learning outcome: a statement defining the expected outcome of a student satisfactorily completing a course, award, General Education pattern, or attending Modesto Junior College.

lecture (course format): a type of instruction in which the student typically observes the instructor e.g., speaking, giving an electronic presentation, asking questions to provoke discussion.

limitation on enrollment: a specific rule that defines what type of student may enroll in a course. Course enrollment can be limited to students with demonstrated abilities, medical clearance, and legal clearance.
**lower division**: The first two years of college work, typically defined as, freshman and sophomore years, for a bachelor's degree. By law only lower-division work can be offered at a community college.

**major**: The program of study a student plans to pursue e.g., biology, nursing, etc., which can culminate to an associate degree, baccalaureate degree, or an advanced degree.

**materials fee**: a fee charged to students to cover the cost of materials used in a given course

**matriculation**: A process that enhances access to the college and promotes students to reach their educational goals successfully.

**non-credit (ungraded) course**: Course for which no units are given. At MJC, any course numbered 800-999 is non-credit.

**pass-no pass (P/NP) grading**: A grading system allowing a course to be taken for a grade of PASS or NO PASS, rather than for a letter grade of A,B,C,D,F. See Academic Regulations for details. Formerly referred to as “CREDIT/NO CREDIT” or CR/NC.

**PiratesNet**: MJC’s website that allows students and prospective students admission to the college through an online application, to search and register for classes and check grades.

**prerequisite**: A requirement which must be completed prior to enrollment in a course. If required, it is listed in the course description. See section on Courses.

**registration**: the formal process of selecting and enrolling in MJC courses in a given semester.

**semester unit**: In general, a semester unit represents 1 hour of lecture or 3 hours of laboratory per week for a semester. Graduation requires 60 semester units. Some schools are on “semester” systems, and some schools are on “quarter” systems. One semester unit at MJC is equivalent to one and a half quarter units of coursework at a “quarter” system institution.

**skills recognition**: an award recognized by MJC that does not appear on the student’s transcript

**syllabus**: a document prepared by an instructor for students in a given course, defining what will be covered in the course, and outlining expectations and policies in some instances. Often includes significant dates of examinations and other key events.

**transfer**: to complete a set of courses at MJC or another community college and continue as a student at another college or university. Typically occurs when students earn an associate degree and enroll at another institution to earn a bachelor’s degree.

**transcript (of record)**: Copy of student’s academic record prepared by the Enrollment Services division. Often required for transfer or employment by another institution.

**upper division**: The last two years of college work, i.e., junior and senior years and/or courses. Upper division courses are not offered at MJC

**withdraw**: to formally remove one’s self from a given course.
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3 Art
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5 Music
6 Stoddard Annex
7 Facilities Operations
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9 • Journalism
   • Campus Safety
   • Disability Services
10 Classroom Annex
11 Founders’ Hall
12 Forum
13 Student Center
14 Library & Learning Center
15 Physical Education- Men
16 Physical Education Offices
17 Swimming Pool
18 Physical Education- Women
19 Gymnasium
20 Center for Advanced Technologies
21 Student Services
22 Agriculture
23 Greenhouse
24 Propagation House
25 Ag Storage
26 Athletic Field #2
27 Athletic Field #1
28 Tennis Courts
29 Stadium
30 Pirates’ Village

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D Parking Dispenser
H Disabled Parking
M Motorcycle Parking
R Reserved Parking
V Visitor Parking
B Bicycle Parking
S Prime Shine - Pirate Express Shuttle